

D. Monitoring of the impact of the project actions (obligatory)

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Action D1: Monitoring the project's contribution to the implementation of the CCA plans

Budget: 77.329€

Number of days estimated spent on action in phase 1: 80 Days

Beneficiary responsible for implementation: Central Denmark Region

Role:

- Follow the implementation of the CCA plans
- Coordinate with beneficiaries responsible for C8-C24 on monitoring
- Prepare reporting and evaluate results

Action D1.1. Monitoring of the implementation of the CCA plans

Description (What, how, where and when):

What:

The C-actions have the purpose to aid the implementation of the municipal CCA plans, the C8-C19 deal directly with the actions mentioned in CCA plans (and the risk management plans), and C1-C8 and C20-C24 have the purpose to provide knowledge and tools to improve the implementation of the CCA plans.

This action will monitor:

- That C8-C19 are implemented accordingly to the CCA plans
- That C1-C7 and C20-C24 result in improved implementation

Table 1: Monitoring indicators and protocol for action D1.1

Who/what	Monitoring indicators	Monitoring protocol and verification
Project management unit/ Action C8-C19	Qualitative indicators: How, results, deliverables in the IP Comparison between C8-C19 and actions mentioned in the CCA plans/risk management plans.	Monitoring protocol: IP application, municipal CCA plans and risk management plans Sources of verification: The project management unit follow the implementation of C8-C19
Project management unit/ Action C1-C7 and C20-C24	Qualitative indicators: Indicators of added value No. of actions of the CCA plans implemented No. of additional CCA activities	Monitoring protocol: IP application, municipal CCA plans and risk management plans Sources of verification: The project management unit follow the implementation of the CCA plans

How:

- Description of actions (how, results, deliverables, milestones) in the IP application compared to the actions mentioned in the CCA plans/risk management plans.
- Monitoring improved implementation is carried out by defining indicators for added value to assess the impact of C1-C7 and C20-C24 on the actions C8-C19 and also on additional CCA activities in the project period e.g. following municipal actions based on the tools in C6. See table 7.

When:

In relation to EU LIFE IP reporting three months before phase 1, 2 and 3, and following the end of the IP.

Where: CDR

Action D1.2: Monitoring of pilot projects

Beneficiary responsible for implementation: Herning Municipality (HK) and VIA University College (VIA)

Role of HK:

- To monitor the impacts and results of action C13
- To report to C2C CC project management. Project management reports to LIFE.

Role of VIA:

- To monitor the impacts and results of action C22
- To report to C2C CC project management. Project management reports to LIFE.

Description (What, how, where and when):

What:

To monitor and report the impact of two pilot projects actions C13 and C22 to demonstrate the effect and novelty of the actions. The monitoring indicators are for this reason technical. The associated beneficiaries of C13 and C22 are responsible of the implementation and monitoring of the actions, and will report to C2C CC project management which will include the results in the reporting for LIFE.

Table 3: Monitoring indicators and protocol for action D1.2

Who/what	Monitoring indicators	Monitoring protocol and verification
Herning Municipality/ Action C13	M ³ retained water Biodiversity Cultivation Nutrients and river ecology	Monitoring protocol: IP application, municipal CCA plans and risk management plans Sources of verification: Test and monitoring results
VIA University College/ Action C22	Discharge concentrations Water balance Physical and chemical soil properties and porosity Hydraulic capability Organic content Concentration of heavy metals and salt	Monitoring protocol: IP application Sources of verification: Test and monitoring results

How:

C13:

1. Mapping of drainage and drainage conditions, soil conditions, potential dissolved-iron areas, flooding, §3, amphibian, habitats and invasive species. This is done by in-house biologists and external consultants
2. Registration of cultivation/area use.
3. Studies in biodiversity and infrastructure, choice of crops, distribution of land, conditions concerning ocher and nutrients, drainage techniques, by agricultural advisers together with knowledge institutions.

C22:

1. Infiltration tests: During the first four years and on an ongoing basis, many infiltration tests of the permeable asphalt will be carried out, to assess time-related and seasonal seepage potential.
2. Purification tests: During the construction of the climate road, different structural constructions of the road will be made in interplay with different types of filter and absorption media to clarify which influence different types of filter and absorption media and their structural design may have on the road's ability to purify the surface water with regard to xenobiotic substances. To clarify the cleaning effect of the road, a drain will be established in and under the climate road, where discharge concentrations can be monitored on an ongoing basis. To ensure the groundwater is not contaminated, an impermeable membrane will be established in a section under the climate road. This also ensures that the water balance is known. During the project period, samples will be taken on an ongoing basis to determine the filter and sorption media's physical and chemical soil properties and porosity, hydraulic capability, organic content and concentration of heavy metals and salt.

When:

C13: 2019-2022

C22: Ongoing throughout the IP 2017-2022

Where:

C13: River Storaa

C22: Hedensted

Action D1.3: Monitoring of capacity building

Beneficiary responsible for implementation: C2C project management

Role:

- Gathering of data related to A, C1-C7 and E actions
- Prepare reporting and evaluate results
- Coordinate with beneficiaries responsible for actions C8-C24 dealing with stakeholder capacity building.

Description (What, how, where and when):

What:

Capacity building is a large topic, and in order to simplify it, it has been divided into the following sub-sections:

- Administrative capacity building
- Dissemination capacity building
- Technical (project-related) capacity building
- Partner and stakeholder capacity building

In order to monitor capacity building, indicators are needed to quantify and qualify the actions. The indicators relevant to capacity building are listed below as well as the monitoring protocol, monitoring indicators and sources of verification for each.

Administrative capacity building

Who/what	Monitoring indicators	Monitoring protocol and verification
Project management unit	Number of hired staff; number of staff trained; skills upgraded and/or learned	Monitoring protocol: LIFE IP application Sources of verification: project auditor
Partner staff	Number of involved people in the project (app. 218 persons); number of staff trained; skills upgraded and/or learned	Monitoring protocol: descriptions of demonstration projects and crosscutting themes drafted by partners Sources of verification: project auditor

Dissemination capacity building

Who/what	Monitoring indicators	Monitoring protocol and verification
Website	How many visitors; which sections are mostly used; amount of downloaded material;	Monitoring protocol: Communication and outreach plan
Newspapers and magazines	Number of newspapers or magazines, that mention the project; number, which publish press releases and articles;	Monitoring protocol: Communication and outreach plan Sources of verification: copies of the articles, press releases, etc., to be gathered and stored
C20 AquaGlobe, C21 Climatorium and C24 Climate History	Number of visitors; satisfaction with the visit and displays;	Monitoring protocol: Communication and outreach plan; IP application descriptions of the C20, C21 and C24 Sources of verification: printout of overview from the ticketing systems
Awareness raising in the general public	Number of citizens, who know C2C CC;	Monitoring protocol: Communication and outreach plan Sources of verification: overview of the survey results and copies of all filled in questionnaires
Networking activities (e.g. participation in conferences and events)	Number of people heard about C2C CC; number of presentations given at external conferences; number of nationalities outreached;	Monitoring protocol: Communication and outreach plan Sources of verification: confirmation emails for registration at events
C2C CC conferences	number of participants;	Monitoring protocol: Communication and outreach plan Sources of verification: registration sheet, which all participants have to sign when arriving at the event
Workshops within the 7 cross-cutting themes (e.g. rain water and tools)	number of participants;	Monitoring protocol: Communication and outreach plan Sources of verification: registration sheet, which all participants have to sign when arriving at the workshops

Technical (project-related) capacity building

Who/what	Monitoring indicators	Monitoring protocol and verification
Tools and models (at least C6, C23)	How many projects use x tool and y model;	Monitoring protocol: IP application description for C6 and C23 Sources of verification: C2C project management follow the use of the tools and models.

Partner and stakeholder capacity building

Who/what	Monitoring indicators	Monitoring protocol and verification
Municipalities (people not directly involved in C2C CC)	number of persons trained: upgrading of skills and knowledge;	Monitoring protocol: IP application Sources of verification: Participants lists
Water utility companies (people not directly involved in C2C CC)	number of persons trained: upgrading of skills and knowledge;	Monitoring protocol: IP application Sources of verification: Participants lists
NGO's involved (people not directly involved in C2C CC)	who; how many; sectors represented;	Monitoring protocol: IP application Sources of verification: Participants lists
Citizens	Number of citizens involved	Monitoring protocol: IP application Sources of verification: Participants lists, manual counting

This action feeds into all C, E and F actions

How:

- Create standardised questionnaires to hand out after every conference and workshop (including both quantitative and qualitative features)
- Create standardised questionnaires to hand out to visitors at AquaGlobe (C20) and Klimatorium (C21) (including both quantitative and qualitative features)
- Create a survey to be used for researching citizens' awareness of climate change
- Create a qualitative evaluation of how the tools and models contribute to the demonstration projects
- Gather and analyse all questionnaires and surveys, and transfer these to statistical models, which are to be included in the interim and final reports to the European Commission and stakeholders.

Where: Throughout the Central Denmark Region

When: This action takes place throughout C2C CC's lifetime.

Reasons why this action is necessary:

Monitoring of capacity building is an essential part of the project. It is crucial to monitor the amount of trainings held, the amount of people reached with communication and dissemination activities, the amount of stakeholders involved, the amount of people who participate in the conferences, etc.

Constraints and assumptions:

Constraints related to this action may refer to the delivery of data from the beneficiaries on stakeholder involvement. The project management accommodate this by encouraging to carry out participant lists.

Expected results

This action contributes to the IP objectives to demonstrate and document effective and well-coordinated implementation of an action plan. The expected results of the sub-actions are stated below. Action D1.1 and D1.3 contributes to document the effect of the IP's impact on catalysing the process towards full implementation of the CCA plans.

The PM unit will follow the implementation of C2C CC actions and the implementation of the municipal CCA plans. The monitoring actions of D1.2 will verify the novelty and replication potential of the pilot projects C13 and C22. In relation to the C2C CC conferences it is expected that at least 25 % of the participants will hand in a questionnaire, and for the C2C CC workshops that 50 % of the participants will hand in a questionnaire. It is further expected that the monitoring of the developed tools C6 and C22 will be used by at least 50% of the municipalities.

Cost estimation:

Personal costs covered by senior (347 Euroes per day) and junior employees (259 Euroes per day)

Other costs based on earlier experiences.

Estimation of the costs for the total project management staff is based upon prior experience from other similar projects. The previously mentioned CDR staff assigned the action will correspond to the budget categories of academic senior and academic junior, where their more specific tasks described above further subdivides them into additional costs categories. The days assigned to each the academic senior and academic junior category types in the budget are considered to cover the staff assigned for the actions mentioned above and the actual costs will be defined in the employment phase.

Deliverables:

Action	Deliverables
D1	Monitoring protocols Baseline report Monitoring reports (delivered every second prior to phase 2, 3 and the end of the IP)

Milestones:

Action	Quantifiable milestones	Date by end of
D1.1	Indicators for added value defined Baseline for CCA plans established Phase 1 monitoring completed	31/07/2017 31/7/2017 10/10/2018
D1.2	Data from beneficiaries received (Phase 2)	
D1.3	E questionnaires developed Phase 1 monitoring completed	31/03/2017 10/10/2018

D2: Monitoring of the project's impact on climate objectives

Budget: 28.053€

Number of days estimated spent on action in phase 1: 40 Days

Beneficiary responsible for implementation: C2C CC project management

Role:

- To follow the development of produced flood and risk maps
- To evaluate the impact of the IP on the reduced flood risk

- To conduct carbon footprint of Central Denmark Region

Description (What, how, where and when):

D2.1: Monitoring of flood risk

What:

Monitoring the IP's impact on reduced flood risk is essential for monitoring increased resilience. For this reason the development of flood and risk maps and severe flood events (above a so-called 20 year event) are monitored.

Table 9: Monitoring indicators and protocol for action D2.1

Who/what	Monitoring indicators	Monitoring protocol and verification
Project management unit	Square kilometers (via flood maps) Square kilometers (via risk maps) Number of actual flooding events in	Monitoring protocol: Municipal CCA plans and risk management plans Data from The Danish Storm Council on severe events. Local information from communities and municipalities Sources of verification:

How:

- Monitor development in flood maps. Baseline is the current maps of the CCA plans (available at municipal homepages and CCA plans) and risk management plans according to the Floods Directive
- Monitor development in risk maps. Baseline is the current maps of the CCA plans (available at municipal homepages and CCA plans) and risk management plans according to the Floods Directive
- Monitor development of severe flood events in selected areas,, based on local information and data from the The Danish Storm Council
- Baseline is used to compare with the development of maps and modelling throughout the IP.
- Action C6.1 will serve to show baseline as well as the development in the groundwater level in the region.

Table 10: Links to flood and risk maps used as baseline for the risk management plans

Type of map/ risk area	Link to baseline
<i>Flood map</i>	
Randers Fjord	http://miljoegis.mim.dk/spatialmap?selectorgroups=themecontainer%20 randers-a1-2&mapext=545921.8%206253656.5%20595073.8%206278923.7&layers=theme-gst-dtkskaerm_daempet%20theme-randers_oversvommelse_100m_100mt2012&mapheight=988&mapwidth=1925&profile=oversvoem2-randersfjord&ignorefavorite=true
Holstebro	http://miljoegis.mim.dk/spatialmap?selectorgroups=themecontainer%20holstebro-a1-2%20holstebro-c2&mapext=470069%206242943.1%20482357%206249259.9&layers=theme-gst-dtkskaerm_daempet%20theme-

	holstebro oversvommelse 100m 100mt2012&mapheight=988&mapwidth=1925&profile=oversvoem2-holstebro&ignorefavorite=true
Juelsminde	http://miljoegis.mim.dk/spatialmap?selectorgroups=themecontainer%20juelsminde-a1-2%20juelsminde-c2&mapext=557019%206170632.6%20569307%206176949.4&layers=theme-gst-dtkskaerm_daempet%20theme-juelsminde_oversvommelse_100m_100mt2012&mapheight=988&mapwidth=1925&profile=oversvoem2-juelsminde&ignorefavorite=true
<i>Risk map</i>	
Randers Fjord	http://miljoegis.mim.dk/spatialmap?selectorgroups=themecontainer%20randers-a1-2%20randers-c2&mapext=545921.8%206253656.5%20595073.8%206278923.7&layers=theme-gst-dtkskaerm_daempet%20theme-randers_risikomiddelstorsandsynlighed_100m_100mt2012&mapheight=988&mapwidth=1925&profile=oversvoem2-randersfjord&ignorefavorite=true
Holstebro	http://miljoegis.mim.dk/spatialmap?selectorgroups=themecontainer%20holstebro-c2&mapext=470069%206242943.1%20482357%206249259.9&layers=theme-gst-dtkskaerm_daempet%20theme-holstebro_risikomiddelstorsandsynlighed_100m_100mt2012&mapheight=988&mapwidth=1925&profile=oversvoem2-holstebro&ignorefavorite=true
Juelsminde	http://miljoegis.mim.dk/spatialmap?selectorgroups=themecontainer%20juelsminde-c2&mapext=557019%206170632.6%20569307%206176949.4&layers=theme-gst-dtkskaerm_daempet%20theme-juelsminde_risikomiddelstorsandsynlighed_100m_100mt2012&mapheight=988&mapwidth=1925&profile=oversvoem2-juelsminde&ignorefavorite=true

When:

In relation to EU LIFE IP reporting three months before phase 1, 2 and 3, and following the end of the IP.

Where: CDR

Action D2.2: Monitoring of carbon emissions

Beneficiary responsible for implementation: Central Denmark Region

Description (What, how, where and when):

What:

CDR has for every two years calculated the carbon footprint of the region in regard to CO₂ emissions per capita to monitor the development of various measures. This monitoring will continue and it is expected that the major common efforts in C2C CC will contribute positively to reduce carbon emissions. In the beginning of the IP (primo 2017) the result of the CO₂ monitoring for 2015 is available. 2015 will function as baseline for the IP.

Table 11: Monitoring indicators and protocol for action D2.2

Who/what	Monitoring indicators	Monitoring protocol and verification
Project management unit	Carbon emission in tons CO ₂	Monitoring protocol: CDR has described the measurement of CO ₂ in CDR, 2013. <i>Energy accounts</i> . CDR (In Danish: <i>Energiregnskab 2013, Region Midtjylland</i>) Sources of verification: CDR measures the municipalities' CO ₂ level every two years and publishes this on its website

How:

- Calculating the carbon footprint of the Central Denmark Region. Baseline is the carbon footprint for 2015.
- Where feasible, we will estimate the carbon footprint of CCA activities in the project, e.g. related to land use change or water and energy saving activities, by using broadly accepted and standardized tools and approaches such as ECOINVENT and ILUC.

When: Every second year during the IP prior to the reporting for phase 1, 2 and 3, and following after the end of the IP.

Where: CDR

Constraints and assumptions:

There are no expected constraints related to this action.

Expected results:

The monitoring of D2 will result in documentation of reduced flood risk and carbon emissions by the end of the IP.

Cost estimation:

Personal costs covered by senior (347 Euroes per day) and junior employees (259 Euroes per day).

Estimation of the costs for the total project management staff is based upon prior experience from other similar projects. The previously mentioned CDR staff assigned the action will correspond to the budget categories of academic senior and academic junior, where their more specific tasks described above further subdivides them into additional costs categories. The days assigned to each the academic senior and academic junior category types in the budget are considered to cover the staff assigned for the actions mentioned above and the actual costs will be defined in the employment phase.

Deliverables:

Action	Deliverables
D2	<ul style="list-style-type: none">• Monitoring protocols• Baseline report• Monitoring reports (delivered every second year prior to phase 2, 3 and the end of the IP)

Milestones:

Action	Quantifiable milestones	Date by end of
D2.1	Baseline for flood maps, risk maps and severe flood events (>20 year event) done Monitoring in relation to final reporting done	31/07/2017 10/10/2021
D2.2	Monitoring report for phase 1 done.	10/10/2018

Action D3: Monitoring of the project's socio-economic impact (incl. ecosystem functions)

Budget: 16.679€

Number of days estimated spent on action in phase 1: 20 Days

Beneficiary responsible for implementation: Central Denmark Region

Role:

- Gather data from existing databases
- Coordinate with beneficiaries responsible from action C20 and C21 on gathering of data
- Coordinate with beneficiaries responsible for C8-C19 on assessment of ecosystem service functions
- Develop ecosystem service assessment methodology in accordance with Mapping and Assessing Ecosystems and their Services (MAES)
- Prepare reporting

Description (What, how, where and when):

What:

The project management will coordinate activity and reporting to describe the contribution of combined C2C CC actions in terms of:

- Direct and indirect employment growth related to the water sector within the region
- Growth in ecotourism and corporate tourism, respectively, within the region.
- The IP's impact on ecosystem services in relation to action C8-C19.
- Dissemination and replication of C2C CC

Table 12: Monitoring indicators and protocol for action D3

Who/what	Monitoring indicators	Monitoring protocol and verification
Direct and indirect employment growth related to the water sector	Growth in number of jobs within the water sector in the region	Sources of verification: Denmark's statistical database: http://www.danmarksstatistik.dk/en
Ecotourism and corporate tourism related to water	Number of tourists related to C20 and C21 Number of coastal and corporate tourists in the region	Monitoring protocol: The publication "Facts about Danish coastal tourism" [in Danish: "Fakta om dansk kystturisme"] published by VisitDenmark and Dansk Erhverv. Sources of verification: VisitDenmark, Dansk Erhverv.
Ecosystem functions	Monetary value	Monitoring protocol: IP application/ C-actions
Participation in C2C CC events	Number and kind of participants Number of add media and articles on webpages, newspapers, radio and television	Different media – potentially using a professional media bureau
Replication of C2C CC	Number of participants from european cities in C2C CC workshops and conferences. Number of bilateral exchange meetings between C2C CC partners and European cities. Amount of distributed C2C CC material to European cities. Number of people influenced by the project activities and results	Monitoring protocol: Participant lists, reporting from partners, printed and distributed PR material. Direct or indirect references to C2C CC in different media, e.g. papers, radio and TV

How:

- The project management will gather data on employment growth and growth within the tourism sector from existing and acknowledge statistical databases. Baseline is 2017. Reporting will take place by the end of the IP (2022) and after the IP.
- The project management will be in dialogue with the beneficiaries of C8-C19 during phase 2 and 3 of the IP in terms of the actions impact of the ecosystem functions. It is expected that the IP will benefit positively to the functions of ecosystems services on restoring natural areas such as rivers and wetlands. An ecosystem assessment method is not existing and a method will be developed by the project management with point of departure in MAES and in dialogue with the associated beneficiaries and the advisory committee. Reporting will take place by the end of the IP. Baseline is the existing CCA plans, which will be compared with the results of the actions.
- *The project management will monitor add media activities and participation levels in the events that have come about as a result of the Life IP project*

When: Phase 3 and beyond the IP.

Where: CDR

Constraints and assumptions:

There are no expected constraints related to this action.

Expected results:

The results of D3 documents direct in indirect growth in per cent in the water sector, and growth in per cent in ecotourism and corporate tourism of CDR. Furthermore it will indicate in monetary value the IPs impact on ecosystem services in relation to action C8-C19.

Cost estimation:

Personal costs covered by senior (347 Euroes per day) and junior employees (259 Euroes per day).

Estimation of the costs for the total project management staff is based upon prior experience from other similar projects. The previously mentioned CDR staff assigned the action will correspond to the budget categories of academic senior and academic junior, where their more specific tasks described above further subdivides them into additional costs categories. The days assigned to each the academic senior and academic junior category types in the budget are considered to cover the staff assigned for the actions mentioned above and the actual costs will be defined in the employment phase.

Deliverables:

Action	Deliverables
D3	<ul style="list-style-type: none">• Monitoring protocols• Ecosystem services assessment methodology• Monitoring reports (delivered every second year prior to phase 2, 3 and the end of the IP)• Reports on add media activities and participation levels for C2C CC activities

Milestones:

Action	Quantifiable milestones	Date by end of
D3	Ecosystem service assessment methodology developed in accordance with Mapping and Assessing Ecosystems and their Services (MAES) Data from existing databases related to employment and tourism gathered Data on media and participation levels gathered	31/3/2018 10/10/2018 (for phase 1 reporting) 10/10/2018 (for phase 1 reporting) 07/07/2018

	Coordination with beneficiaries responsible from action C20 and C21 on gathering of data done Coordination with beneficiaries responsible for C8-C19 on assessment of ecosystem service functions done	07/07/2020
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Action D4. Environmental monitoring

Budget: 16.679€

Number of days estimated spent on action in phase 1: 20 Days

Beneficiary responsible for implementation: Central Denmark Region

Role:

- To gather data from the Danish Nature Agency
- To report on the environmental state of waters in the region

Description (What, how, where and when):

The environmental reporting relates to the C-actions. Several of the C-actions deal with modelling and analyses, whereas the implementation of physical projects begin after the end of the IP. It is therefore expected that the full benefit of the IP is shown after the end of the IP.

What:

In Denmark monitoring related to water takes place through the monitoring programme NOVANA operated by The Danish Nature Agency. NOVANA is targeted to provide necessary information and knowledgebase to support EU legislation (Water Framework Directive, Habitats Directive, the Marine Strategy Framework Directive, Shellfish Water Directive and the Nitrates Directive). NOVANA operates primarily with two kinds of surveys; surveillance- and operational monitoring, respectively. Surveillance monitoring involves the measurement of the general conditions and the development. Operational monitoring involves areas, where targets are not expected to be met, or areas where considerable effort towards a better water environment has been done. The Danish Nature Agency are responsible of NOVANA data collection and primary data processing, while DCE (Danish Center for the Environment) is responsible for reporting.

Table 43: Monitoring indicators and protocol for action D4

Who/what	Monitoring indicators	Monitoring protocol and verification
Project management unit/ Lakes and rivers	Ecological quality, water chemistry, nutrient transport, hazardous substances.	Monitoring protocol: NOVANA Sources of verification: The Danish Nature Agency
Sea and Fjords	Eutrophication, protected habitats and species, hazardous substances and their biological effects.	Monitoring protocol: NOVANA Sources of verification: The Danish Nature Agency
Groundwater	Qualitative status (chemical status) and quantitative status (amount).	Monitoring protocol: NOVANA and Jupiter Sources of verification: The Danish Nature Agency and GEUS

How:

Lakes and rivers:

There are multiple stations around DK, where monitoring takes place. These are collected by The Danish Nature Agency and made publicly available through the online portal "Miljøportalen"¹ on yearly basis. C2C CC project management monitor the data via this online portal for the WFD 2010-2015² and 2016-2021³.

Sea and fjords:

The marine areas are for monitoring purposes divided into 164 VRD-water areas, 85 habitat areas that consist of one or more natural habitats designated acc. Habitats Directive and 13 interest acc. Shellfish Water Directive. These are collected by The Danish Nature Agency and made publicly available through the online portal "Miljøportalen" on yearly basis. C2C CC project management monitor the data via this online portal for the WFD 2010-2015⁴ and 2016-2021⁵.

Groundwater:

The program includes monitoring of groundwater qualitative status (chemical status) as well as monitoring of groundwater quantitative status (amount). All groundwater monitoring data from NOVANA (quality and quantity) is collected and quality assured by The Danish Nature Agency. Groundwater quality is monitored through action plans. Monitoring of groundwater quantitative status is collected from 116 national stations 1 time annually. C2C project management monitor the data via Geological Survey of Denmark and Greenland (GEUS) online portal⁶ (also accessible from "Miljøportalen").

When:

After the end of the IP, when the implementation phase of C8-C24 actions begin.

Where: CDR

Constraints and assumptions:

There are no expected constraints related to this action.

Expected results:

The environmental monitoring will verify that the IP contributed to improved environmental state of water environments after the end of the IP.

Cost estimation:

¹ Miljøportalen, national digital platform for environmental data: <http://arealinformation.miljoportal.dk/distribution/>

² WFD 2010-2015: <http://miljoegis.mim.dk/cbkort?&profile=vandrammedirektiv1-2014>

³ WFD 2016-2021: <http://miljoegis.mim.dk/spatialmap?&profile=vandrammedirektiv2basis2013>

⁴ WFD 2010-2015: <http://miljoegis.mim.dk/cbkort?&profile=vandrammedirektiv1-2014>

⁵ WFD 2016-2021: <http://miljoegis.mim.dk/spatialmap?&profile=vandrammedirektiv2basis2013>

⁶ Jupiter is GEUS' national database of groundwater, drinking water, raw materials, environmental and geotechnical data.

The database is the common public database of the area and is part of Denmark's Environment Portal. The database is

publicly available at: <http://geuskort.geus.dk/googleearth/>

http://data.geus.dk/geusmap/?mapname=jupiter#zoom=7.795455765656261&lat=6212143.9398531&lon=525769.80308993&visiblelayers=Topographic&filter=&layers=&mapname=jupiter&filter=&epsq=25832&mode=map&map_imagetype=png&wkt=

Personal costs covered by senior (347 Euroes per day) and junior employees (259 Euroes per day)

Estimation of the costs for the total project management staff is based upon prior experience from other similar projects. The previously mentioned CDR staff assigned the action will correspond to the budget categories of academic senior and academic junior, where their more specific tasks described above further subdivides them into additional costs categories. The days assigned to each the academic senior and academic junior category types in the budget are considered to cover the staff assigned for the actions mentioned above and the actual costs will be defined in the employment phase.

Deliverables:

Action	Deliverables
D4D4	Monitoring reports (delivered every second year prior to phase 2, 3 and beyond the IP)

Milestones:

Action	QuantifiableQuantifiable milestones	Date by end of
D4D4	DataD gathered from existing databases related to employment and tourism	10/10/2018 (for phase 1 reporting)

E1 Communications and outreach plan

Budget: 12.130€

Number of days estimated spent on action in phase 1: 40 Days

Beneficiary responsible for implementation: Central Denmark Region

What:

This action takes place in phase 1.

The communication and outreach plan will outline the general communication activities and the coordination of the concrete implementation actions' (C1-C24) communication activities, and ensure that all communication activities are in accordance with the LIFE requirements. C2C CC involves 311 associated beneficiaries and 16 primary stakeholders (Letters of Support), it is thus necessary with a clear communication and outreach plan.

The communications and outreach plan will include a dissemination and replication strategy for the crosscutting capacity building activities (C1-C7) and the demonstration projects (C8-C24). To ensure that the results of the 24 projects (involving 31 beneficiaries) are disseminated successfully and to all relevant stakeholders. The communication and outreach plan will, furthermore, include a replication strategy. The replications strategy is expected to develop further as the project progresses and will be revised continuously. In the end it is expected that other cities and communities have replicated at least two cross-cutting capacity building activities (C1-C7) and at least five ideas, approaches or project designs from the demonstration projects in the region (C8-C24).

Media work is an important element of the communication and outreach plan. This includes sending out press releases, holding press conferences, inviting journalists and stakeholders to visit the demonstration projects, preparing articles for the press, etc. The plan gives the overall guidelines on how to deal with media, how frequently the Communication Officer in the PM unit will be in contact with media, etc. (cf. E4). The LIFE logo will be visible on all publicity material.

In order to target audience outside C2C CC (i.e. in other Danish regions, EU Member States and globally), outreach will be part of the communication and outreach plan. Outreach will, besides information about C2C CC, also raise awareness of the societal challenges of climate change. This is linked to action E3.2, where local information meetings are mentioned as an outreach activity.

How:

1. Prepare communication and outreach plan, incl. a replication strategy
2. Determine public outreach objectives and timeline, and identify appropriate outreach methods
3. Develop clear and consistent story telling messages that are aligned with the C2C CC objectives
4. Evaluate and incorporate feedback from outreach activities in order to ensure a consistent high quality plan
5. Prepare media contacts for ongoing communication activities
6. Prepare After LIFE communication activities.

Where:

At the premises of the C2C CC PM unit in Viborg

When:

01.01.2017-31.12.2022 (and beyond). This action will commence immediately after the project commences and continue throughout the project period and afterwards to ensure a continuous updating of the plan.

Reasons why this action is necessary:

A clear communication and outreach plan is necessary to ensure coordination of communication activities and effective dissemination and outreach in a large consortium. This includes all types of communication and dissemination and will be reviewed on a regular basis.

Constraints and assumptions

It is necessary to draft and finalise the communications and outreach plan in order to ensure that all activities are in line with the overall strategy. Therefore, it is assumed that this work can be conducted in the first three months of the project's lifetime.

Expected results:

This action results in effective and coordinated communication activities across the C2C CC consortium. The feedback from the various dissemination events are analysed which provides an understanding of what works well and what has not been as successful as anticipated, and thus make it possible to adjust accordingly. It will further result in well-established communication contacts for effective and rapid media coverage and continues communication of the C2C CC actions after LIFE and during the physical implementations.

Cost estimation:

Personal costs covered by senior (347 Euroes per day) and junior employees (259 Euroes per day)

Estimation of the costs for the total project management staff is based upon prior experience from other similar projects. The previously mentioned CDR staff assigned the action will correspond to the budget categories of academic senior and academic junior, where their more specific tasks described above further subdivides them into additional costs categories. The days assigned to each the academic senior and academic junior category types in the budget are considered to cover the staff assigned for the actions mentioned above and the actual costs will be defined in the employment phase.

Deliverables:

<i>Action</i>	<i>Deliverables</i>
E1.1 - E1.3	Communication and outreach plan incl. a replicaton strategy Revised replications strategy along with the first progress report. Final replications strategy two cross-cutting capacity building acitivities are replicated iin other cities and regions five ideas, approaches or project designs from demonstration projects are replicated iin other cities and regions
E1.4	Compilation of feedback in quantitative statistics
E1.5	List of media contacts
E1.6	Included in the After LIFE plan (F1.1)

Milestones:

<i>Action</i>	<i>Quantifiable milestones</i>	<i>Date by end of</i>
E1.3	The first draft of the communications and outreach plan is finished Draft replication strategy Revised replication strategy Final replication strategy two cross-cutting capacity building activities replicated five ideas, approaches or project designs are replicated	31/3/2017 01/06/2017 31/09/2018 31/09/2022 31/12/2022 31/12/2022
E1.4	The feedback from all the dissemination events are analysed and ready to use for planning of events after C2C CC is finished	31/12/2022
E1.5	Media contact list is prepared	31/02/2017
E1.6	Communication activities for After LIFE is prepared	31/09/2022

E2 Tangible communication products

E2 deals with the tangible means of communication.

An initial mean deserves a brief introduction, it is the C2C CC logo. The IP name was decided by the C2C CC partners during the initial IP Concept Note workshop in August 2015. The partners came with different suggestions, and the name was decided by a vote. The name symbolises CCA actions within the region between the three coastlines towards the North Sea, Limfjord and Kattegat. This logo will appear together with the LIFE logo.



Beneficiary responsible for implementation: Central Denmark Region

Budget: 80.046€

Number of days estimated spent on action in phase 1: 70 Days

E2.1 Website and online platform (obligatory)

What:

This action takes place in phase 1.

At the beginning of the project, a website will be created to inform about and document the actions and demonstration projects of C2C CC. The following items will be available:

- a summary of the project,
- a list of partners and stakeholders,
- a full description of all actions within the project, demonstration projects and complementary projects,
- the objectives of the project, demonstration projects and complementary projects,

- progress of the project, demonstration projects and complementary projects,
- results of the project, demonstration projects and complementary projects, and
- links to the individual websites of the actions (these will be “located” on the various official websites of the municipalities)
- Information about different activities in the project
- Invitation to take part in various activities
- LIFE material incl. LIFE progress reports.

The website will have the following URL: www.c2ccc.eu. It will be updated regularly throughout the project, and it will furthermore be maintained at least 5 years after the IP by CDR’s IT-department. The LIFE IP has a duration of 6 years, however, it is expected, that the framework, which the European Commission helps fund the beginning of, will continue for many years after the end of C2C CC. The C2C CC website is the main means of online dissemination; however, some of the demonstration actions (C8-C24) will also have locally embedded websites. These have the purpose to anchor the actions locally towards politicians and citizens, and also to reach more stakeholders in their local environments, it is therefore agreed within the C2C CC consortium, that C8-C24 can budget with small amounts for this activity. All websites will link to the main C2C CC website.

The website is used for external purposes as it acts as a dissemination tool to keep all interested parties up-to-date with the project. For internal use a section of the website will be limited to C2C CC partners to stay updated on the concrete implementation actions, progress, workshops, seminars etc. The webpage and underlying file sharing system will be a comprehensive online platform used for communication, outreach and file sharing. Due to the complexity of C2C CC, the stakeholder teams, advisory board, task forces, etc. need quick access to project results as well as various aspects of the process such as activities, project leaders of concrete implementation actions, planned meetings, etc.

Another element of the online platform, is a logbook created as a process related tool to ensure that all partners have a forum to explain the progress, or lack of, and their reflections on their concrete implementation actions. This logbook is introduced to the partners during the kick-off seminar (cf. F2.1).

The actions feed into the communication workshop, which will be held in February 2017 where the aim is to gather local communication officers working with communications and PR at the partner organisations to ensure coordination of and effective C2C CC communication.

The LIFE logo will be visible on all publicity material.

The target audience for the website is the general public and all stakeholders of C2C CC. The target audience for the online platform is the partners.

How:

1. Create the website and online platform in cooperation with the communication departments of the cities and municipalities involved in the project. The overall responsibility is placed with the PM unit (CDR).

Where:

This action mainly takes place at the premises of the PM unit in Viborg.

When:

The website and online platform will be established in a draft version for the kick-off seminar, so they can be introduced to the consortium. The web page will be updated throughout the whole project period.

E2.2 Notice boards (obligatory)

What:

This action takes place in phase 1.

Notice boards will be displayed at strategic locations to raise awareness about the LIFE IP and to indicate which areas are included in the project. For example, for the concrete implementation actions in the Western Limfjord, large-scale notice boards will be placed at public and tourist places to inform about C2C CC and C9, C17 and C21 locally. Small-scale notice boards will be made to be placed in locations such as city halls and CDR's official entrance to raise awareness about the project. All demonstration projects (C8-C24) will have notice boards in various sizes in order to locate them in several locations. Two large notice boards and 5 smaller notice boards will be made per concrete implementation action.

The LIFE logo will be visible on all publicity material.

Target audience:

The target audience for the notice boards is the general public.

How

1. Create the local notice boards in cooperation with the local partners and place them in their respective locations

Where:

This action mainly takes place at the premises of the PM unit in Viborg.

When:

The first notice boards will be ready in April 2017, and the rest will follow hereafter.

E2.3 Newsletters

What:

The C2C CC PM unit will send out newsletters once every six months during the 6 years (in total 12 newsletters) to communicate about and disseminate on the project's results.

The LIFE logo will be visible on all publicity material.

Target audience: All stakeholders

How:

1. Research and draft articles and “progress reports” on the demonstration projects. Tie C2C CC into potential relevant political happenings, developments, etc.

Where:

This action mainly takes place at the premises of the PM unit in Viborg.

When:

Every six month during 2017-2022.

E2.4 Publication of report for the general public (a layman’s report) (obligatory)

What:

This action takes place in phase 3.

This report will be produced in both paper and electronic format in two language versions: English and Danish. The report will be concise (5-10 pages) and will present C2C CC, its objectives, its actions and its results. This is a final report used for dissemination purposes to the general public.

The report contributes to C2C CC by providing all stakeholders with information about CCA issues and concretely what C2C CC has achieved and expects to achieve after the project’s lifetime. It contributes to the objective of the project by involving citizens, NGOs, public authorities, the private sector, etc. as well as providing all partners with concrete dissemination material for them to showcase in their respective environments (work wise and geographically).

This report will be disseminated at the final conference in 400 colour copies, matching the amount of participants expected to attend (cf. E3.4).

The LIFE logo will be visible on all publicity material.

Target audience

C2C CC stakeholders – both those attending the final conference, but also wider, as the report will be made available on the C2C CC website.

How:

1. Gather information on all demonstration projects and how the overall C2C CC objective was achieved. Present the information in a comprehensive way along with pictures, graphs, statistics, etc.

Where:

This action mainly takes place at the premises of the PM unit in Viborg.

When:

The work is ongoing through a large part of the project; however, from 01.07.2022 it will be a priority to work on the layman's report.

Reasons why this action is necessary:

Notice boards are necessary to render visible at the C2C CC's demonstration projects to the public to ensure that the local community is aware of what is happening in their environment.

The website will make it possible for all interested parties to gather information and this will in turn entail that the results and experiences will be used in a wider context. It is a priority to make the information as engaging and attractive as possible to make all stakeholders interested in getting involved in the process.

Constraints and assumptions:

No constraints are expected.

Expected results:

E2 mainly result in tangible communication products are published, made available and set up to allow all stakeholders to gather information about C2C CC, this involves the C2C CC website and online platform, at least 24 notice boards, at least 12 newsletters and 1 layman's report distributed in at least 400 copies.

Cost estimation:

Personal costs covered by senior (347 Euroes per day) and junior employees (259 Euroes per day)

Other costs based on earlier experiences.

Estimation of the costs for the total project management staff is based upon prior experience from other similar projects. The previously mentioned CDR staff assigned the action will correspond to the budget categories of academic senior and academic junior, where their more specific tasks described above further subdivides them into additional costs categories. The days assigned to each the academic senior and academic junior category types in the budget are considered to cover the staff assigned for the actions mentioned above and the actual costs will be defined in the employment phase.

Deliverables:

Action	Deliverables
E2.1.	1 C2C CC website and 1 online platform
E2.2.	24 notice boards (1 large and 5 smaller notice boards for 4 projects). After the first batch has been made, the remaining 78 will follow.
E2.3.	12 newsletters incl. articles, progress reports, etc.
E2.4	1 layman's report in 400 colour copies and online download

Milestones:

Action	Quantifiable milestones	Date by end of
E2.1	Draft version of website and online platform ready	26/01/2017
	Final version of website and online platform ready	31/03/2017
E2.2	Notice boards for 4 demonstration projects are ready	30/04/2017
	Notice boards for the remaining projects are ready	30/11/2017

E2.3	Newsletter 1 is published	30/06/2017
	Newsletter 2 is published	15/12/2017
	Newsletter 3 is published	30/06/2018
	Newsletter 4 is published	15/12/2018
	Newsletter 5 is published	30/06/2019
	Newsletter 6 is published	15/12/2019
	Newsletter 7 is published	30/06/2020
	Newsletter 8 is published	15/12/2020
	Newsletter 9 is published	30/06/2021
	Newsletter 10 is published	15/12/2021
	Newsletter 11 is published	30/06/2022
	Newsletter 12 is published	15/12/2022
E2.4	Layman's report is finalised	10/11/2022

E3 Seminars and conferences

Beneficiary responsible for implementation: Central Denmark Region

Budget: 137.353€

Number of days estimated spent on action in phase 1: 60 Days

E3.1 Seminar to communicate about the findings in preparatory action A1

What:

This action takes place in phase 1.

Actions A1.1-A1.5 are vital to ensure that the partners have access to the current knowledge within the fields of CCA integrations and mainstreaming as well as a good understanding of the legal barriers imposing this area. All the data and information gathered in the mentioned preparatory actions need to be communicated to the consortium and other relevant stakeholders, and this will be done at a seminar in May 2018. The seminar is held for the project consortium in addition to being open for external interested parties including the complementary projects. This is to ensure that the general level of knowledge among Danish stakeholders meets best practice, and furthermore, it is an opportunity to disseminate about the C2C CC project. It will be the Communications Officer's overall responsibility to plan the seminar.

The PM unit will present their findings of the legal barriers and additional external experts will be invited to present experience and legal frameworks. Furthermore, senior consultants from the relevant ministries and agencies as well as the Minister of the Environment and the minister of Danish Ministry of Energy, Utilities and Climate are invited to disseminate legal CCA barriers.

This action feeds into actions C1-C24 as the information is necessary to have as a general knowledge of CCA barriers.

The workshop will last half a day (4 hours).

For this event, the PM unit will prepare a memo to be handed out at the seminar. PowerPoints and presentation materials will be available at the C2C CC website.

The LIFE logo will be visible on all publicity material.

Target audience:

The target audience for the seminar is the partners, complementary projects and other relevant stakeholders, who are interested in learning (more) about the barriers of CCA. Furthermore, EU officials from the European Commission (DG CLIMA) will be invited to participate in the conference. All partners and primary stakeholders are expected to attend this workshop. The total number of participants expected to attend this seminar is 60 people.

How:

1. Prepare seminar, invite all stakeholders, confirm venue and speakers.
2. Evaluate seminar and publish seminar material at C2C CC website.

Where:

Ferskvandscentret in Silkeborg (www.fvc.dk)

When:

May 2018

E3.2 Conference “Coast 2 Coast Climate Challenge – the first year!”

What:

This action takes place in phase 1.

One year into the project, the first large conference will be held for partners and external stakeholders e.g. politicians, NGOs and media. This is to communicate about the project itself, the objectives and the progress after the first year. The various stakeholders will have been well informed throughout this first year by means of notice boards, the website and local information meetings (outreach activity cf. E2).

An important aspect to note in this regard is local government elections on the 21st of November 2017, and the elected politicians will hereafter take office on 1st of January 2018. As there might be a (large) number of newly elected politicians in the municipalities and the regional council, it is essential that these are introduced to C2C CC, the ambitious goals, the many demonstration projects, and the stakeholders involved to ensure the necessary backing from the political level.

Keynote speakers:

- Connie Hedegaard, previous European Commissioner for DG Climate Action and currently chairperson of the green think-tank Concito, will give the opening speech.
- Ida Auken, former Minister of Environment, the politician behind the municipal CCA plans.

The PM unit will be presented and their business cards will be handed out to facilitate contact afterwards for all interested parties. The Communication Officer will encourage all

stakeholders to stay up-to-date on the project's progress by visiting and actively using the project's website.

During this conference, all project leaders of C1-C24 are invited to give a presentation to promote and create awareness about the local actions in phase 1 and how it will progress in phase 2 and beyond. A centrally placed booth area with posters, display pictures and information about the actions. One-page project sheets will be available for each action. The one-page project sheets will be printed in 200 colour copies.

Aalborg University, Aarhus University, VIA, Teknologisk Institut, etc. have a timeslot allocated to present their work and progress on the crosscutting themes e.g. capacity building.

This will be a full one-day conference.

The Regional Council chairman will in his outro introduce the mid-term and final conferences including their dates, and inform about the future focus areas of C2C CC.

The LIFE logo will be visible on all publicity material.

Target audience:

The target audience for "Coast 2 Coast Climate Challenge – the first year!" is partners, politicians, municipal officials, citizens, NGOs and media. 200 people are expected to participate in the event. All partners will attend this conference. Furthermore, EU officials from the European Commission (DG CLIMA) will be invited to participate in the conference.

How:

1. Invite all stakeholders and speakers well in advance to ensure the availability
2. Prepare conference material and event management
3. Evaluate conference and publish conference material at C2C CC webpage

Where: Eastern part of the region, e.g. Værket in Randers (www.vaerket.dk)

When: 10.01.2018

E3.3 Conference "Coast 2 Coast Climate Challenge – half way there"!

What:

This action takes place in phase 2.

Three years after the project has commenced, the midterm conference will be held for partners and external stakeholders e.g. politicians, citizens, NGOs and media. A midterm evaluation will be presented at this time to indicate how far along the project is and how many of its goals it has achieved at this point in time. As this conference is in phase 2, it is not yet possible to describe its contents further. It will, however, very much be structured in the same way as the first conference (cf. E3.2).

At the end of the conference, the final conference will be introduced (including the date for this).

This will be a full one-day conference.

One-page project sheets are foreseen to be made for each demonstration project – similar to the first conference – and they will be printed in 200 colour copies.

The LIFE logo will be visible on all publicity material.

Target audience:

The target audience for “Coast 2 Coast Climate Challenge – half way there!” is partners, politicians, municipal officials, citizens, NGOs and media. 200 people are expected to participate in the event. Furthermore, EU officials from the European Commission (DG CLIMA) will be invited to participate in the conference.

How:

1. Invite all stakeholders and speakers well in advance to ensure the availability
2. Prepare conference material and event management
3. Evaluate conference and publish conference material at C2C CC webpage

Where: Western part of the region, e.g. Musikteatret in Holstebro (www.musikteatret.dk)

When: 09.01.2020

E3.4 Conference “Coast 2 Coast Climate Challenge – Done! What comes next?”

What:

This action takes place in phase 3.

The final conference for all C2C CC stakeholders (project consortium and external parties) is foreseen to take place in December 2022. Focus is on the evaluation, progress and achievements of C2C CC. Each concrete implementation action will be presented. A special attention is given on the After LIFE activities i.e. in what setting will the project continue, are all partners still on board, and does the overall objective or sub-objectives need to be revised?

The layman’s report (cf. E2.3) will be handed out during this conference.

This will be a one-day conference.

The LIFE logo will be visible on all publicity material.

Target audience:

The target audience for “Coast 2 Coast Climate Challenge – Done! What comes next?” is partners, politicians, municipal officials, citizens, NGOs and media. In the previous two conference, 250 people were expected to participate; however, this number increases for the final conference to 300 people. Furthermore, EU officials from the European Commission (DG CLIMA) will be invited to participate in the conference.

How:

1. Invite all stakeholders and speakers well in advance to ensure the availability
2. Prepare conference material and event management
3. Evaluate conference and publish conference material at C2C CC webpage

Where:

In the central part of the region, e.g. Herning Kongrescenter (www.mch.dk)

When:

15.11.2022

E3.5 Large international conference: ENCORE Conference on “Environmental issues and Climate Change”

What:

This action takes place in phase 1.

CDR is part of ENCORE⁷, which is a European regional cooperation forum on environmental issues such as energy, bio economy, climate change, climate change adaptation, biodiversity and green transition. By participating in ENCORE, regions give officials/civil servants and politicians the possibility to establish relations with other regions and to exchange good practices and develop projects e.g. in the framework of EU-applications. From autumn 2016 CDR takes over the presidency of ENCORE. With the presidency follows the responsibility of arranging a political conference. The conference in 2018 is foreseen to also act as an opportunity for display for companies and products from the Central Denmark Region.

The ENCORE conferences are held every two and a half years and they have between 150-800 participants. CDR has participated on both the political and administrative level since 2008.

The budget for this conference is approximately 133.000 € (990.000 DKK), and this will be paid by CDR outside of the C2C CC. Moreover, it is estimated that the manpower to coordinate the conference is equivalent to a full year's work spread out over the next four years. This will be financed by CDR through its Regional Development department.

The benefit of having this conference in the region during the project lifespan of C2C CC is, that valuable lessons can be brought out and best practices and be disseminated to other European regions in advance, during and after the event. Therefore, this conference is of utmost importance in relation to dissemination and replication of C2C CC.

The LIFE logo will be visible on all publicity material.

⁷ <http://www.encoreweb.eu/>

Target audience:

The target audience for the ENCORE Conference is regional European politicians and professionals working with environment issues and/or policies.

Furthermore, EU officials from the European Commission (DG CLIMA and DG ENV) will be invited to participate in the conference.

How:

1. Aid ENCORE organisers with preparation of the conference
2. Prepare C2C CC communication and dissemination material and platform presentations.
3. Participate in the conference and network with relevant professionals and CCA projects
4. Evaluate conference participation and publish C2C CC conference material on C2C CC webpage.

Where:

Central Denmark Region

When:

2018 (the date of the conference is not agreed upon yet)

E3.6 Participate in large international conference: ICCCGW 2019: 21st International Conference on Climate Change and Global Warming*What:*

This action takes place in phase 2.

Participating in other conferences is important to ensure dissemination and updated knowledge on the field of CCA. This conference provides an opportunity to learn about best practice in a European and/or global setting, and the objectives and agenda for CCCCGW 2019 is highly linked to those of C2C CC. For more information on ICCCGW 2019 see the website: <https://www.waset.org/conference/2019/07/stockholm/ICCCGW>

Two PM officers attend the conference in Sweden to present C2C CC and to establish contacts to relevant European CCA projects.

The LIFE logo will be visible on all publicity material.

How:

1. Submit conference abstracts for platform presentation and sign up for the conference
2. Prepare conference material
3. Evaluate conference and publish C2C CC conference material on C2C CC website

Where:

Stockholm, Sweden

When:

13-14 July 2019

E3.7 Networking or thematic event upon request of the Contracting authority

What:

A platform meeting presenting results from C2C CC project. The event will include group tours to see sites included in the project or other Life projects sites in the near by area.

How

The monitoring team and EASME would be involved in the organisation of the event, identifying projects to invite, sending out invitations, attending the event and assisting there, etc. The details will be agreed based on need at the time. The participants would of pay for their own accomodation and travels.

Where

Central Denmark region, location to be decided

When: 2018

Cost: Additional cost of 10.000 is claimed on request

Reasons why this action is necessary:

Conferences are effective in reaching many stakeholders and establishing contacts regarding cross-border knowledge sharing. Six large conferences are foreseen in the six years of C2C CC, and of these, 2 are hosted externally (e.g. not under the auspices of C2C CC). The conferences are foreseen to have between 250-400 participants.

Constraints and assumptions

The main constraint is lack of participants signing up and attending the conference. The size of the C2C CC consortium, the novelty of the actions and the pressing need for local experiences on CCA make a burning platform of the conferences. The communication and outreach plan aid in ensuring broad communication of the conferences.

Expected results:

The actions of E3 results in C2C CC is disseminated to a large number of stakeholders during the project's lifetime. The 3 C2C CC conferences and ENCORE will result in dissemination to at least 1150 Danish and European professionals.

Cost estimation:

Personal costs covered by senior (347 Euroes per day) and junior employees (259 Euroes per day)

Other costs based on earlier experiences.

Estimation of the costs for the total project management staff is based upon prior experience from other similar projects. The previously mentioned CDR staff assigned the action will correspond to the budget categories of academic senior and academic junior, where their more specific tasks described above further subdivides them into additional costs categories. The days assigned to each the academic senior and academic junior category types in the budget are considered to cover the staff assigned for the actions mentioned above and the actual costs will be defined in the employment phase.

Deliverables:

<i>Action</i>	<i>Deliverables</i>
E3.1.	Agenda for the seminar Presentation on review of legal barriers (cf. E3.1)
E3.2 – E3.4	Conference material for the three conferences One pagers for use in the three conferences Booth material (demonstration projects) for use for the three conferences

E3.5	Presentation to use at ENCORE
E3.6	Presentation to use at ICCCGW
E3.7	Networking event

Milestones:

<i>Action</i>	<i>Quantifiable milestones</i>	<i>Date by end of</i>
E3.1	Seminar on legal barriers + other research in preparatory action A1 is held	31/05/2018
E3.2	The first C2C CC conference "The first year" is held	10/01/2018
E3.3	The second C2C CC conference "Half way there" is held	09/01/2020
E3.4	The final C2C CC conference "Done! What comes next?" is held	15/11/2022
E3.5	The presentation for the ENCORE conference is ready	2018 (the date for the conference is not yet set)
E3.6	Presentation and all relevant material is ready to bring to the conference	10/07/2019
E3.7	In cooperation and on request from EASME Arranging a meeting	30/12/2018

E4. Media works

Beneficiary responsible for implementation: Central Denmark Region

Budget: 14.942€

Number of days estimated spent on action in phase 1: 15 Days

What

This action takes place in phases 1-3.

The overall strategy for dealing with the media is set out in the communication and outreach plan (cf. E1). The press will be informed about the progress of C2C CC by means of press releases. They will also be invited to join various events and conferences. Press conferences are in particular foreseen in phases 2 and 3, when concrete implementation actions reach a significant goal and/or are completed.

Media contacts may include: journalists from large and local newspapers, "green" magazines, Dialog (CDR's magazine about regional development, which is published four times a year), Zoom (the equivalent magazine in the Northern Danish Region), Danske Kommuner (Local Government Denmark's weekly magazine), Danske Regioners nyhedsbrev, CDEU's news, local newspapers. The PM unit is in charge of all contact with the media, and create contact between media and local project leaders of C8-C24.

The LIFE logo will be visible on all publicity material.

The target audience is the media.

How:

1. Start dialogue with key journalists, e.g. from Berlingske, Danske Kommuner, Natur & Miljø (Danmarks Naturfredningsforening).
2. Write 4 press releases per year on C2C CC.
3. Arrange minimum 1 interview per concrete implementation action for the media.

Where:

This action primarily takes place at the premises of the PM unit in Viborg.

When:

Throughout the C2C CC's duration 01.01.2017-31.12.2022

Reasons why this action is necessary:

Keeping the media informed is vital to ensure overall dissemination.

Constraints and assumptions:

It is assumed that there is a wide interest to include the press releases in the various media, and that all 12 press releases will be published in both general media (e.g. national newspapers) and in more sector specific media (e.g. magazines on climate issues and green transition).

Expected results:

Effective and professional communication through a good line of communication with the media and production of press material, this involves at least 24 press releases over the course of the six years and "study trips" to the demonstration projects as showcases of CCA, C2C CC and LIFE IP.

Cost estimation:

Personal costs covered by senior (347 Euroes per day) and junior employees (259 Euroes per day)

Other costs based on earlier experiences.

Estimation of the costs for the total project management staff is based upon prior experience from other similar projects. The previously mentioned CDR staff assigned the action will correspond to the budget categories of academic senior and academic junior, where their more specific tasks described above further subdivides them into additional costs categories. The days assigned to each the academic senior and academic junior category types in the budget are considered to cover the staff assigned for the actions mentioned above and the actual costs will be defined in the employment phase.

Deliverables:

Action	Deliverables
E4	24 press releases over the course of the six years
E4	17 agendas for the "study trips" to the demonstration projects

Milestones:

Action	Quantifiable milestones	Date by end of
E4	Press release 1-4 are finished	31/12/2017
E4	Press release 5-8 are finished	31/12/2018
E4	Press release 9-12 are finished	31/12/2019
E4	Press release 13-16 are finished	31/12/2020
E4	Press release 17-20 are finished	31/12/2021
E4	Press release 21-24 are finished	31/12/2022
E4	17 study trips have been planned and executed	31/10/2022

E5. Networking with other projects (obligatory)

Beneficiary responsible for implementation: Central Denmark EU Office

Budget: 36.188€

Number of days estimated spent on action in phase 1: 34 Days

What

This action takes place in phases 1-3.

Networking with other projects (LIFE projects as well as non-LIFE projects) and sharing experiences and good practices are important elements of achieving a successful LIFE IP. This action is a continuous action, which takes place throughout the project period.

Projects having received LIFE funds are important due to their innovative and European added value on either nature or climate, which is highly relevant to C2C CC. One of the objectives of LIFE projects is to achieve a European added value and to share best practices and cases with other EU Member States, and networking with other projects is a vital aspect of this. Central Denmark EU Office (CDEU) will participate in other projects' workshops and dissemination activities to establish contact with the project managers and potentially other relevant people. If relevant, these can be invited to participate in the three conferences planned to take place in year 1, year 3 and year 6 of C2C CC (cf. E3.2-E3.4). CDEU can, due to the office's location in Brussels, ensure that C2C CC is presented and disseminated at various workshops and conferences hosted by the EU, regional offices, NGOs, etc., and thus establish contact with relevant projects.

The LIFE logo will be visible on all publicity material.

The target audience for this action is projects having received LIFE or other EU funds, primarily dealing with nature, environment, CCA and capacity building.

How

1. Establishing contact with previous Danish projects having received LIFE funds (these can be found in the LIFE database; establishing contact with other Danish non-LIFE funded projects of relevance to C2C CC (cf. above where the reasoning for why both CCA and non-CCA projects are relevant))
2. Participate in a minimum of 4 networking activities per year (small and large scale seminars, conferences and meetings). These will take place in and around the Brussels region.

Where Denmark and EU Member States

When In general, for the communication tasks: these will commence immediately after the project commences and continue throughout the project period and afterwards.

Reasons why this action is necessary:

To stay up to date with European best practice. This action is necessary to ensure that best practices are used and further developed and it will help ensure a continuous high quality of C2C CC.

Constraints and assumptions

No significant constraints are expected for this action.

Expected results:

Networking with other projects result in dissemination of C2C to the Brussels' environment and bringing in European best practice to C2C CC.

Cost estimation:

Personal costs covered by senior (347 Euroes per day) and junior employees (259 Euroes per day)

Other costs based on earlier experiences

Estimation of the costs for the total project management staff is based upon prior experience from other similar projects. The previously mentioned CDR staff assigned the action will correspond to the budget categories of academic senior and academic junior, where their more specific tasks described above further subdivides them into additional costs categories. The days assigned to each the academic senior and academic junior category types in the budget are considered to cover the staff assigned for the actions mentioned above and the actual costs will be defined in the employment phase.

Deliverables:

<i>Action</i>	<i>Deliverables</i>
E5	1 overview of all Danish projects having received LIFE funding and other Danish projects having received other EU funding, but which is still relevant in relation to C2C CC
E5	24 confirmation letters/emails of attendance to events

Milestones:

<i>Action</i>	<i>Quantifiable milestones</i>	<i>Date by end of</i>
E5	The overview showing Danish projects (LIFE and other EU funds) is finished	30/04/2018
E5	Participation in 4 events on CCA and/or CCM(year 1)	31/12/2017
E5	Participation in 4 events on CCA and/or CCM(year 2)	31/12/2018
E5	Participation in 4 events on CCA and/or CCM(year 3)	31/12/2019
E5	Participation in 4 events on CCA and/or CCM(year 4)	31/12/2020
E5	Participation in 4 events on CCA and/or CCM(year 5)	31/12/2021
E5	Participation in 4 events on CCA and/or CCM(year 6)	31/12/2022

E6 International dissemination

Beneficiary responsible for implementation: Central Denmark EU Office

Budget: 41.235€

Number of days estimated spent on action in phase 1: 37 Days

What

CDEU will travel 2 times per year to the Central Danish Region to produce short films of C1-C24. Statements from the project leaders will be included as well as short statements from other relevant stakeholders, e.g. NGO's working on the project. The films will be disseminated on the C2C CC website as well as on the locally embedded websites of the actions.

The LIFE logo will be visible on all publicity material.

Target audience

EU officials, project officers, policy officers, energy and climate representatives from the permanent representations, etc.

How

Action 1: Video various parts of the projects and interview key people working on it

Action 2: Edit the short films into approximately 2 minutes for each project

Action 3: Upload the short films to the C2C CC website when they are done and write a short story/article for each of them

Where

Central Denmark Region

When

This is a continuous activity taking place between 01/01/2017 – 31/12/2022

Reasons why this action is necessary:

To promote international dissemination and replication. Providing this project – and its many crosscutting capacity building activities and demonstration projects - as a best practice example, that other regions in and outside of Europe can replicate to their local environments, is a key goal for C2C CC.

Constraints and assumptions

No significant constraints are expected for this action.

Expected results:

Each crosscutting capacity building activity and demonstration project is disseminated to a wide public international audience, at least 24 short films (one for concrete implementation action) are made and disseminated on the C2C CC website.

Cost estimation:

Personal costs covered by senior (347 Euroes per day) and junior employees (259 Euroes per day)

Other costs based on earlier experiences

Estimation of the costs for the total project management staff is based upon prior experience from other similar projects. The previously mentioned CDR staff assigned the action will correspond to the budget categories of academic senior and academic junior, where their more specific tasks described above further subdivides them into additional costs categories. The days assigned to each the academic senior and academic junior category types in the budget are considered to cover the staff assigned for the actions mentioned above and the actual costs will be defined in the employment phase. Subsistence costs are also based on prior experience and can be further subdivided into Hotel costs, Daily allowances/Payment for meals and local transportation categories, as shown below for this action's subsistence costs items:

Travels	<u>Trip to Denmark. Production of dissemination materials</u>
<i>Partners</i>	CDEU
<i>Cost categories:</i>	
Hotel cost:	554
Daily allowances/Payment for meals cost:	238
Local transportation costs:	0
Total subsistence cost:	792

Deliverables:

<i>Action</i>	<i>Deliverables</i>
E6	24 short films (one for each demonstration project and crosscutting capacity building activity) are made and disseminated on the C2C CC website
E6	

Milestones:

<i>Action</i>	<i>Quantifiable milestones</i>	<i>Date by end of</i>
E5	24 short film are finished	31/10/2022

LIFE Integrated Projects 2015 - C1e

LIFE Integrated Projects 2015 - C1e

F. Project Management and monitoring of project progress (obligatory)

Beneficiary responsible for implementation: Central Denmark Region

This action and its subactions will take place in phase 1 and ongoing.

Description:

Project Management (PM) will as the coordinating beneficiary assume the overall responsibility for ensuring the project meets its objectives and outcomes. Further PM will make sure that the project runs within the time setup in the milestone plans, meets the demanded reporting and financial requirements. PM will be the single point contact for EC and manage the project.

The PM unit is the daily administration of the full IP. This includedes coordination of the work related to full imlementation of D, E and F actions The PM unit will be responsible for keeping the project on track and ensure that the tasks are worked on and delivered on time. Progress and financial reports will be made for the EU-LIFE administrators and evaluators every two years. Furthermore, the PM unit is the central unit established to facilitate, coordinate and built up capacity for the local entities in the project and is responsible for communicating project results to the media and running the implementation of the communication plan setup in the project. Subsequently, PM is the unit working on inputs to the steering committee

ACTION F.1: Establishment of organizational structure

Budget: 1.013.927€

Number of days estimated spent on action in phase 1: 1072 Days

What:

In the preparation of the concept note and full proposal, all relevant organizations has been consulted to develop the proper organization of C2C CC. The organizational structure will support interdisciplinarity and very different challenges, while the flexibility is still kept.

Figure 55 shows the overall organizational structure (organigram) of the project management and its relations to the other inteties in the project organisation. It also gives a overview of the different tasks for the different organisational entities in the overall organisational structure.

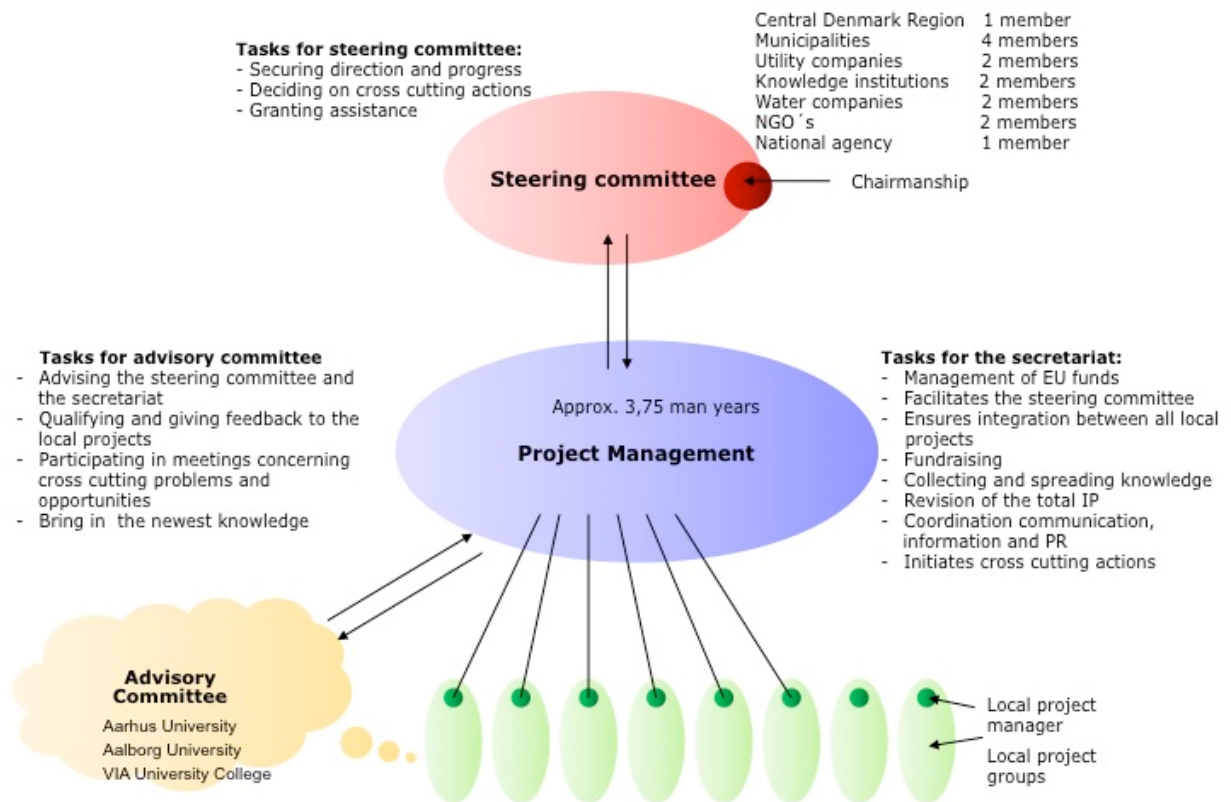


Figure 1: Organisation structure of C2C CC IP LIFE

How:

The long and detailed preparation phase up to the IP CN and subsequent Full Proposal has established C2C CC as a project with great attention. Therefore, there will be great interest in participating in the different units such as steering committee.

Where: The unit is based the premises of CDR in Viborg.

When: Starting second half of 2016 running through whole project period.

F1.1 Establish a project management unit

What:

Central Region Denmark vil establish the overall project management unit.

This action feeds into C1-C24

How:

Both permanent and temporary staff will implement the management actions including the cross-disciplinary themes (C1-C7), coordination of activities in the demonstration projects, and the complementary projects. Project management unit will further include super vision, quality ckecking outputs, human resource management, overall representation of the project, financial management, LIFE Activity reporting and recruitment.

The recruitment process will take 4 months (i.e. posting the vacancy, reviewing incoming applications and interviewing candidates). The first two weeks after the IP starts, the unit will be given a thorough introduction by the project manager and project financial officer, covering: how C2C CC was developed, partners and other stakeholders, the objectives, the actions, and the complementary projects, etc. Furthermore, the unit will be introduced to the Central Denmark EU Office (CDEU), who will actively aid with fundraising and applying for complementary projects.

The total project management staff will consist of:

- Project Manager
- Project Officer
- Communication officer
- Experts in the Water Cycle
- Project Secretary
- IP Finance Officer

CDR has managers with extensive experience with project management of large national and international consortia's regarding water management and innovation as shown below where the relevant experience of the PM is listed:

- Lead partner in CLIWAT: InterReg IVB NSR project about climate change and groundwater. Ended 2012
- Lead partner in WaterCAP: InterReg IVB NSR Cluster project working in the field of water cycle and climate change and bringing results to the EU level. Ended 2013
- Lead partner in WaterCAP Taskforce: InterReg IVB NSR project about disseminating the results of InterReg projects about water and climate change. Ended 2015
- Lead partner in TopSoil: InterReg VB NSR project about finding new ways of managing the soils to improve the climate change resilience. Start 2015 end 2020
- Project partner in Burval: InterReg IIIB NSR project concerning groundwater and groundwater protection in buried valleys. Ended 2006.
- Participating in regional projects about climate change adaptation.
- Furthermore, the appointed manager is board member of a large innovation network (Water in Cities) in CDR about climate change and water.

The finance officer appointed to the project has extensive experience from the following projects:

- Coordinating beneficiary in North Pest Clean: LIFE 09 ENV project. Ended 2014.
- Coordinating beneficiary in ScanComp: InterReg IV A project with 37 partners and a budget of 12 million €. Ended 2014.
- Coordinating beneficiary in WaterCAP Taskforce: InterReg IVB NSR project. Ended 2015
- Coordinating beneficiary in TopSoil: InterReg VB NSR project. Start 2015 end 2020
- Coordinating beneficiary in KOBRA: InterReg VB ØKS project. Start 2015 end 2019
- Financial management of transportation system for Siemens and 25 centres in Germany - volume 50 million €. Ended 2000.

The project manager will appoint and recruit the rest of the project management team as one of the first tasks.

Where: The unit will be based in the premises of Central Denmark Region in Viborg.

When: The preparations, such as recruiting and allocating an office, will start September 2016. As the project starts 1st of January 2017, the PM needs to be established before this date, so it is full-fledged and prepared to start working from the first day of the project.

F1.2 Project coordination, monitoring and reporting

What:

The PM has the responsibility for IP project coordination, monitoring and reporting. The primary tasks of the PM are:

- Quality control and risk management incl. contingency planning
- Develop draft partnership agreement
- Process preparatory actions (A actions), concrete actions (C1-C7), monitoring actions (D-actions) and E-actions.
- Coordinate between concrete actions (C8-C24) and complementary projects
- Coordinate and support public C2C CC tenders and affect them in a green and sustainable direction, as a minimum through CDR's green procurement standards
- The C2C CC project manager is the link between the steering group and C2C CC. The manager will also provide a link with the advisory committee
- Reporting to LIFE administration incl. general LIFE reporting, finance reporting, audit, next phase preparation and 'after LIFE' plan.
- Prepare the next phase in coordination with C1-C24
- Coordinate the implementation of D and E actions

How:

1. Project coordination

The PM is a central unit established to facilitate, coordinate and built up capacity for the local entities in the project, steering group and advisory Committee, which involves coordination among the actions, not only in relation to LIFE reporting, but also for the purpose of ensuring integrative planning. The C2C CC partnership is also expected to result in a number of common tenders and public procurements targeting the similar challenges of the municipalities (C1-C7). The PM will support the local process and run some of the procurements on a regional basis to ensure cross cut learning and take advantages of economies of scale. The project team will meet monthly to track progress, resolve issues and identify risks. The frequency can regularly increase to a weekly basis depending on the tasks ahead. Facilities like telephone and video conferences will be used when appropriate. For enhancing planning, coordination, reporting, communication and general management purposes between PM and associated beneficiaries, a dedicated management software solution will be purchased.

The project management unit is responsible for the general coordination of the complementary projects with the C2C CC actions aiming towards the full realisation of the CCA plans. To support full realisation and further funding of CCA, a strategy for coordinating with the other funding bodies will be delivered within the first 6 months of

the project and memorandums of understanding (MOU) from the dedicated parties will be developed and presented for the utility companies of the regions and other relevant stakeholders. The PM unit will follow up, encourage and aid in fundraising and coordinating complementary projects. The project management unit will maintain continuous contact and follow up on the progress of the complementary projects. A short description of the progress of these will be given in the IP progress reports.

At the end of every phase the PM will compile and gather the phase 2 reports from C1-C7 and prepare a proposal for adjustment and planning of the next phase. The proposal will be discussed with the steering group, advisory board and the beneficiaries in the project dealing with C8-C24.

2. LIFE reporting

The PM unit will monitor milestones from project activities and collect deliverables from beneficiaries' action (C8-C24) for assembling into required LIFE progress reports. The PM unit will be responsible for reporting on the progress indicators and to maintain an up to date record of project progress against indicators. The IP Finance Officer will prepare documentation for audit incl. maintaining record of costs incurred. The Communication Officer will be responsible for producing a communication and dissemination plan, maintaining the C2C CC online portal, and coordinate communication across C1-C24 and ensure all materials meet the LIFE requirements. To track project progress and share documents between partners the C2C CC online portal is established and will include an electronic logbook.

3. Finance reporting

The Finance Officer assist the Project Manager with financial statement related to submission of LIFE progress reports and will arrange and prepare for the external audit. In advance the Finance Officer will gather and compile the reports from the beneficiaries.

4. Audit

An external auditor is used to verify that the IP has been delivered according to time and budget. The External Audit will be included with the Final Report and request for payment at the end of the project.

5. Next phase preparation and "after LIFE plan"

Prior to each of the three phases, the PM prepares for the next phase to be included in the progress reporting for the previous phase. This is done in close corporation with the work done in C1-C24. Further it will include coordination of technical and financial elements and dialogue with C2C CC steering group and the beneficiaries. After LIFE plan is planned at the end of Phase 3, and will incorporate continuation of C2C CC actions after the end of the IP.

Already in Phase 1, the C2C CC leadership will organise a 'Clearing House' to deal with fundraising, project development, and partner search. The clearing house will consist of: information – and notification – on relevant national/international calls, opportunities to be coached by experienced fundraisers (e.g. CDEU), review of eventual applications, and contact to potential partners in other EU countries and beyond. The concrete measures continue throughout the project period and beyond, as the project develops and investments are carried out.

The 'Clearing house' will consist of the fund raising competences of CDEU and the PM unit, which in collaboration and involvement of the beneficiaries will build fund raising capacities among the municipalities. If the beneficiaries wish that the Clearing House continue after the end of the IP, it will be stated in the final progress report. Regardless the decision, the role of CDEU will continue after the IP. In addition, the CCA effort carried out by CDR prior to the IP is expected to continue during and after the IP to further implement the CCA experiences and projects.

Where:

The unit will be based in the premises of Central Denmark Region in Viborg.

When:

Throughout all phases

F1.3 Launch of steering group and project groups

What:

The daily management of the project is lead by the PM. In addition the overall decision making is dealt with by the steering group represented by partners in the consortia.

This action feeds into C1-C24

How:

The steering group includes municipal representatives appointed by the Regional Association of Local Government of DK (LGDK), high-level representatives from the CDR as well as representatives from CDR, water companies, knowledge institutions, companies, and government agencies. The organisations involved are already known, but the relevant individuals need to be identified. The project management group thus needs to contact the stakeholders to appoint the primary and secondary responsible person, who will be included in the Steering Group on the basis of knowledge and interest in CCA.

The tasks of the steering group are:

- Securing direction and progress
- Deciding on witch cross-cutting actions to initiate
- Granting assistance from the Advisory Committee to the local projects

The project groups consist of the relevant beneficiaries and their respective stakeholders involved in each of the actions C8-C24. Depending on the character of the actions, it is possible that more stakeholders could be involved, e.g. in relation to business development. Project groups last during all phases and in some cases afterwards.

Where:

Central Denmark Region

When:

27/01/2017 the launch of the steering group and project groups will be part at the kick off seminar.

F1.4 Establishment of Advisory Committee

What:

The C2C CC understanding of capacity-building relates to the project's definition of resilience, described in Form B, section 2. The main objective of C2C CC has its core in strengthening resilience, including vulnerability and adaptive capacity. Within adaptive capacity lies also an understanding of resilience as a process, where capacity to cope with change can be developed and strengthened, and where change can be used as a possibility to innovate. Capacity building is included in C2C CC through extensive and thematic focused capacity building activities in C1-C7 and by establishing an Advisory Committee, which has the function of a capacity building task force.

The organisation of C2C CC, was decided by the consortium at preparatory workshops and the members have acknowledged their role in the Advisory Committee. Therefore, once the IP starts, the Advisory Committee will be formally established. There are three members – all of which are universities: Aarhus University (AU), Aalborg University (AAU) and VIA University College (VIA). These beneficiaries are included in the IP budget. In addition, other knowledge institutions have expressed a wish to take part in the Advisory Committee on a voluntary basis; this will be accepted in regard to relevant enhancement of specific expertise. The PM supports the Advisory Committee in relation to coordination between capacity building activities and organisation of specific events.

The tasks of the Advisory Committee are:

- Challenges on how CCA may support sustainable transition of existing systems and practices
- How to create added value across different sectors including environment, biodiversity, liveability, health and job-creation
- How to realize in practice inter-sectorial and inter-disciplinary collaborations in integrative planning processes involving network governance
- How to engage and mobilise private actors including citizen involvement and to create new forms of co-creation and co-operations
- Create synergies between the 17 demonstration projects and 7 cross-cutting capacity building actions
- In general, answer questions from the beneficiaries on technical issues related to the specific actions

As C2C CC includes many issues, e.g. flooding, water environment and marine ecology, it is possible to create themed sub-groups in the Advisory Committee, when relevant.

The first meeting in the Advisory Committee takes place in January 2017 and the overall aim is to define the areas of competences within the three members' organisations and to match expectations and define synergies.

Business PhD's: A total of DKK 2,4 million is allocated to the Advisory Committee for e.g. PhD projects or other research studies. PhD students will be employed for a period of 3 years each.

Relevant research outcomes of the Horizon 2020 or Framework Programmes could be integrated in the IP through PhD students with focus on areas not covered or areas in need of further elaboration. The H2020 programme: Societal challenges: SC5-10-2016: Multi-stakeholder dialogue platform to promote innovation with nature to address societal challenges. This mechanism will function through the Advisory Committee especially in regard to H2020 on research programmes, supplemented with the role of CDEU (financed

by the region and its municipalities). More specifically, the PhD students will be attached to the PM unit and will also take part as action researchers in the project, their research results are thus an iterative process in great interaction with the IP.

It is agreed in the consortium that the Advisory Committee members contribute with 20 % co-financing instead of the usual 40 %. The remaining part is contributed by CDR. The allocated man hours to be spent in phase 1 are: approximately 399 hours for AAU and VIA, each where 375 is spent on advising again for each and approximately 350 hours for AU in phase 1 where 326 is spent on advising.

This action feeds into C1-C24.

How:

1. To advise on crosscutting capacity building actions and demonstration projects incl. to engage actively in the concrete actions C1-C24 to qualify the projects and to ensure best practice and state of the art knowledge (375 hours of advising per AC member for AAU and VIA and 350 hours of advising for AU's AC member in phase 1 alone)
2. To collect and compile knowledge from the demonstration and crosscutting capacity building actions, and use their results to create synergies
3. To aid drafting on guidelines on how to deal with specific challenges and opportunities
4. To disseminate knowledge to the relevant project owners and partners (give presentations at C1-C7 workshops) as well as externally (publish 3 articles per year on specific topics in newspapers, magazines and sector-specific publications)
5. To support further capacity building activities
6. To meet four times per year (a total of 24 meetings) to ensure consensus and to discuss issues/challenges/opportunities

Where:

The Advisory Committee will meet at the premises of one of the members or meet at the premises of the PM unit (to be confirmed when the project starts).

When:

The Advisory Committee will meet 4 times per year, and the potential themed sub-groups will meet as often as is required and will be agreed upon individually in the groups.

Expected results:

F1 will result in professional project management of C2C CC LIFE IP with a competent, structured and highly engaged PM unit. F1 will further result in clear division of responsibility in the C2C CC consortium and the Advisory Committee will result in high quality of capacity building to secure best practice, mobilize complementary projects and promote innovation. The kick off seminar in F2 will result in dissemination of formal requirements, practical information and further mobilize engagement among partners and the communication workshop will result in dissemination and coordination of correct LIFE IP communication to local communication officers.

Cost estimation:

The cost estimations on the PhD engagement is based on 200 € per day.

The costs relates to time across permanent and temporary staff and some travel costs. External costs has been estimated based on prior experience from other projects.

Estimation of the costs for the total project management staff is based upon prior experience from other similar projects. The previously mentioned CDR staff assigned the action will correspond to the budget categories of academic senior and academic junior, where their more specific tasks described above further subdivides them into additional costs categories. The 200 days assigned to each the academic senior and academic junior category types in the budget are considered to cover the staff assigned for the actions mentioned above and the actual costs will be defined in the employment phase. Subsistence costs are also based on prior experience and can be further subdivided into Hotel costs, Daily allowances/Payment for meals and local transportation categories, as shown below for this action's subsistence costs items:

Travels	Trip to DK. Thorough introduction of C2C CC to Project management Unit
<i>Partners</i>	CDEU
<i>Cost categories:</i>	
Hotel cost:	147
Daily allowances/Payment for meals cost:	63
Local transportation costs:	0
Total subsistence cost:	210

ACTION F2 Internal seminars and workshops

Beneficiary responsible for implementation: Central Region Denmark

Budget: 25.695€

Number of days estimated spent on action in phase 1: 60 Days

F2.1 Kick-off seminar for the project consortia

What:

The purpose of the kick-off seminar is to ensure, that all C2C CC partners are ready to start the IP; involving the concrete actions, that everybody understands their tasks, know the C2C CC objectives, etc. And also to re-gain the C2C CC spirit developed through the initial workshops during 2015 and 2016 where the C2C CC was developed.

The Communication Officer in the PM unit has the overall responsibility for planning the kick-off seminar; however, the remaining 2,75 officers in the PM will attend the kick-off seminar. This seminar will also be an introduction of the PM by the project developers from CDR and Central Denmark EU Office (CDEU) for the C2C CC partners.

Target audience: The target audience for the kick-off seminar is the C2C CC partners.

The content of the kick-off seminar, will besides introducing the frame of C2C CC also include:

- **Covenant of Mayors Climate and Energy:** All municipalities that signed Letters of Intent for the Concept Note will be introduced to Covenant of Mayors Climate and Energy at the kick-off seminar and the PM will ensure that all involved municipalities in C2C CC are well informed and on their way to connect the CCA plans to this agreement.
- **Mayors Adapt:** To ensure that all municipalities that signed Letters of Intent for the Concept Note (where they agreed to start preparing for Mayors Adapt), has signed up for this initiative. In that regard, Mayors Adapt will be introduced at the kick-off seminar and the PM will ensure that all involved municipalities in C2C CC are well on their way to signing.
- **Electronic Logbook:** To introduce an electronic logbook for the partners. This logbook has the purpose to keep track of the progress and the partners' experiences – both positive and negative – as well as the work being done and the stakeholders involved (cf. E2.1). This logbook is presented as a way to deal with process related issues, e.g. expectations for the project, who participated, what came out of it, what was learned, replication possibilities (can the method, process and/or example be replicated?). Other partners will have the opportunity to comment on and assist on any problems or challenges as well as staying up-to-date with the progress. The output of this logbook can be used as material in research projects by AU or AAU in relation to governance and network governance.

How:

1. To invite all partners well in advance to ensure that all partners are represented at the kick-off seminar.
2. To confirm venue large enough for this seminar and which has the capacity of both one large room and several smaller group rooms, as it is foreseen that the participants are divided into teams.
3. To confirm speakers and set the agenda. Speakers can be people either involved in C2C CC and/or external people, who will speak about important aspects such as replication or innovation in the water sector.
4. To prepare an overview of the municipalities, which have already signed Mayors Adapt and those who are working on it.
5. To prepare a presentation on the C2C CC logbook for all partners to use. This is a part of the online platform, which is the internal section of the C2C CC website limited to partners.

Where:

Ferskvandscenteret in Silkeborg

When:

This action takes place in phase 1 on 26/01/2017. The kick-off seminar should be held in late January 2017 in order to ensure that the PM has been fully introduced to C2C CC partners, that the online communication platform is up and running and that the IP gets “of the ground”.

F2.2 Communications workshop

What:

This workshop has the purpose to ensure that all people working with communication in the municipalities and other partners are aware of the importance of communication for C2C CC and to create an opportunity to brainstorm on how to best communicate and disseminate information about the project and its many actions.

The Communications Officer in the PM will present the actions linked to communication and dissemination mentioned in the IP application. The workshop will build capacity among local communication officers related to C8-C24 on communication of C2C CC as a LIFE IP project.

The workshop will be held after the launch of the C2C CC website. This action feeds into the action E’s Communications and Outreach Plan.

The workshop will last 4 hours/half a day.

Target audience: The target audience is local communication officers. One or two officers will attend from each beneficiary.

How:

1. Prepare workshop
2. Invite all beneficiaries
3. Confirm venue

Where:

Venue to be decided.

When:

This action takes place in phase 1 on 28.02.2017. It is important that this workshop is held within the first few months of the project. The workshop is thus planned to take place at the end of February, as this gives the PM sufficient time to get the C2C CC website up and running and plan this workshop.

Reasons why this action is necessary:

Action F1.1. and F1.2 are obligatory and absolutely essential in running C2C CC, and F1.3 is necessary to ensure clear division of responsibility. F1.4. is necessary to ensure that the quality of the capacity building as a minimum secures best practice, mobilize complementary projects and promote innovation.

F.2.1 will create a good official starting point of the C2C CC where formal requirements can be disseminated to all partners, and the great spirit of the initial IP application phase can be

reestablished in an official beginning of integrated CCA planning. F2.2 is necessary for coordinating and mainstreaming the communication of C2C CC, when the consortium consist of a large numbers of partners, who all have great engagement in communicating and anchoring C2C CC locally towards politicians, citizens and stakeholders. This is in particular important to ensure the implementation of actions after the end of the C2C CC.

Constraints and assumptions:

There are no expected significant constraints related to F1.1, F1.2 and F1.3. The overall PM of the IP has great experiences in running large EU funded projects incl. InterReg and has management experience with employee responsibility and recruiting. In addition, this person is one of the main drivers behind CDR's many years of experience in organising and facilitating large stakeholder processes incl. network and knowledge sharing, and capacity building events within CCA. The foundations of the steering group and project groups are established during the initial IP application process.

One possible constraint related to the Advisory Committee (F1.4) is insufficient practise of the committee, whereas the capacity building potential is not fully used. The research institutions (VIA, AU and AAU) are all known for their applied science and active engagement with practice, the collaboration will thus not suffer from lack of bridging between science and practice. However, there may be a challenge in 'remembering' to bring in the Advisory Committee into the concrete actions (C8-C23). The PM will therefore support the Advisory Committee and C8-C23 in actively bringing the committee into the challenges of the concrete actions. This is done by the Electronic Logbook, and the ongoing dialogue.

There are no significant constraints related to action F2.1 and F2.2.

Expected results:

Dissemination of formal requirements, practical information and further mobilize engagement among partners (F2.1). Dissemination and coordination of correct LIFE IP communication to local communication officers (F2.2)

Cost estimation:

Estimation of the costs for the total project management staff is based upon prior experience from other similar projects. The previously mentioned CDR staff assigned the action will correspond to the budget categories of academic senior and academic junior, where their more specific tasks described above further subdivides them into additional costs categories. The days assigned to each the academic senior and academic junior category types in the budget are considered to cover the staff assigned for the actions mentioned above and the actual costs will be defined in the employment phase.

Deliverables:

Action no	Deliverables
F1	Phase 1 progress report incl. a strategy for coordinating with the other funding bodies and MOU's Phase 2 proposal Phase 2 progress report Phase 3 proposal Mid-term reporting Phase 3 progress report Final report Electronic Log book
F2	Kick-off press release

Milestones:

Action no.	QuantifiableQuantifiable milestones	Date by end of
F1	strategy for coordinating with the other funding bodies	01/06/17
	PMU stablished incl. new recruitments	31/11/2016
	SteeringS group launched	
	Phase 1 progress report done	26/01/2017
	“Clearing House” established	
	Mid-term report done	31/09/2018
	Phase 2 progress report done	31/08/2019
	Phase 3 progress report done	31/09/2020
	Final report done	31/09/2022
	After LIFE plan drafted	31/06/2023
	31/06/2023	
F2	Kick-off seminar prepared	26/01/2017
	Communication work shop prepared	28/02/2017

DELIVERABLE, MILESTONES AND REPORTING SCHEDULE

MAIN DELIVERABLE PRODUCTS OF THE PROJECT

Name of the Deliverable	Code of the associated action	Deadline
A memo sent to the beneficiaries PowerPoint presentation	A1	31/5/2017
Report on best practices in relation to CCA mainstreaming (desk study) Report on strategy on how to work with cross-sectoral cooperation A PowerPoint presentation	A2	31/12/2017 31/05/2018
A report and database on information from previous data analyses and reports A report showing both quantitative and qualitative answers	A3	31/03/2017
A script used for conducting the interviews A report showing both quantitative and qualitative answers A PowerPoint presentation used to disseminate the information	A4	15/04/2017 31/05/2018
Minutes of meeting. Initial contact is made with LGDK and relevant national ministries and agencies, and the first meeting is set up	A5	31/03/2017
One note on replication of the findings in the project Note on the continuation of a CCA and coastal challenges network after the IP incl. recommendations on purpose, organisation and financing.	C1	31/12/2022 31/12/2022
An interactive 3D decision support tool on the water flow in catchment areas across municipal borders (same as C6.2). 1 forecast system based on models and meteorological forecasts available for the public 1 Note on new concept for utilities to pay farmers to retain water upstream cities, and thus save costly investments in the cities. 1 report on different business models to ensure win win solutions between the agriculture and urban areas. Action Report on the synergies between agriculture, CCA and wetlands 1 report on 'Impacts of CCA on freshwater ecology'.	C2	31/12/2018 31/12/2020 31/12/2020 31/12/2020 31/12/2020 31/12/2020
Report with maps showing groundwater flood prone areas.. Training material in the form of maps and descriptions... Report on the available tools on groundwater mapping including relevant test and demonstrations Workshop report on the results discovered. General report on the potential needs for local models in groundwater flood prone areas based on the results from the local and regional modelling. Guideline on local scale and regional scale modeling. Report - Identifying conflicts built in the present tax system on energy and water consumption. Report on relevant use of excess groundwater on a regional and local scale.	C3	31/12/2020 31/12/2018 31/12/2020 31/12/2020 31/12/2020 31/12/2020 31/12/2020

<p>Evaluation report on the capacity of SUDS and the limitations set by the local hydrology, geology and other framing conditions.</p> <p>A report on SUDS used in C2C CC and possible SUDS systems to be introduced as means to prevent flooding from heavy rain events.</p> <p>A report on consultation with withrelevant producers of SUDS.</p> <p>Report on the learnings within stakeholder involvement in relation to sewage separations and SUDS.</p> <p>Training and inspirational material for the authorities and utilities to inspire the citizens on the possible solutions.</p>	C4	<p>31/12/2018</p> <p>31/12/2020</p> <p>31/12/2020</p> <p>31/12/2018</p> <p>31/12/2020</p>
<p>Newsletter on the activities of the Advisory Committees available at www.c2ccc.eu</p> <p>Small videos on the experiences, benefits and recommendations of the C2C CC actions available at www.c2ccc.eu</p> <p>Reports on expert consultations</p> <p>Peer reviewed journal article on the experiences of network governance in C2C CC.</p> <p>1 guideline for network governance based on the experience in C2C CC</p> <p>1 common regional strategy on CCA with the outset in integrative planning and network governance.</p>	C5	<p>ongoing</p> <p>ongoing</p> <p>31/12/2022</p> <p>31/12/2022</p> <p>31/12/2022</p>
<p>A High resolution groundwater-surface water model</p> <p>User guideline for the model</p> <p>An interactive 3D decision support tool on the water flow in catchment areas across municipal borders</p> <p>User guideline for the tool.</p> <p>Report on the testt and demonstration of warning systems</p>	C6	<p>31/12/2018</p> <p>31/12/2018</p> <p>31/12/2018</p> <p>31/12/2018</p> <p>31/12/2022</p>
<p>Reporton best practice cases</p> <p>Information material on EU support and funding possibilities</p> <p>Report describing potentials for Danish Water Hub and a comparison of water exports before and after C2C CC</p>	C7	<p>31/12/2022</p> <p>31/12/2017</p> <p>31/12/2022</p>
<p>3 descriptive scenarios and 1-3 prescriptive scenarios for the Håb til Håb area's development</p> <p>AA report on the pilot project</p>	C8	<p>31/12/ 2018</p> <p>31/07/ 2022</p>
<p>Two surveys of major stakeholders</p> <p>An analysis of the optimal, permanent protection</p> <p>A cross-border emergency preparedness plan</p>	C9	<p>31/12/ 2017</p> <p>30/06/ 2019</p> <p>30/06/ 2020</p>
<p>Calibrated hydraulic model for the Grenaa Catchment</p> <p>Strategic plan for the area and its climate adaptation</p>	C10	<p>31/12 2018</p> <p>31/12/ 2022</p>
<p>ReportReport on mapping, modelling and analysis of the Randers Fjord</p> <p>A feasibility study into a possible subsequent EIA for a dam project</p> <p>Modelling Tools and two municipal strategies for land use in and around Randers Fjord</p>	C11	<p>31/12/ 2018</p>
<p>Report and catchment tool og River Gudena Catchment area</p> <p>Catalogue of solutions, costs, etc.</p> <p>Material from workshop, travels etc. with stakeholders</p>	C12	<p>31/12/ 2018</p>
<p>Report on designation of test areas and mapping of drainage factors;</p> <p>Description of solutions for testing.</p> <p>Monitoring report.</p>	C13	<p>31/12 2018</p> <p>31/12/ 2020</p> <p>31/12/ 2022</p>

<p>A model that can calculate scenarios for the total flooding from the sea, watercourses and sewage systems</p> <p>Technical background reports of model methodology and results , designated local sites and solutions, filling times for reservoirs and dimensioning of pumps and sluices, solutions for water flow and for the catchment area that promote biodiversity as much as possible, improve water quality and provide recreational options for local residents.</p> <p>Design material of dikes, sluices and pumps that inspire to provide recreational urban spaces.</p>	C14	<p>31/06/2017</p> <p>31/12 2019</p> <p>31/12/2020</p>
<p>An added value barometer for Hedensted town a citizen involvement tool</p> <p>The stakeholders' (Citizens) local climate proofing plan(s) for Hedensted and Tørring.</p> <p>1 leaflet with recommendations (bullet 5 and 6)</p> <p>Technical report on drainage systems and scenario results for one area.</p>	C15	<p>31/12 2018</p> <p>31/07/2021</p> <p>31/07/2022</p>
<p>Report on the identification of the Climate Ribbon's exact size as well as geographical, biological circumstances (e.g. groundwater layers, soil, contamination etc)</p> <p>Publication of program for an international professional tender on the Climate Ribbon</p> <p>Reports, investigations and masterplan for elements of the Climate Ribbon, incl. expected concrete planning for parts and publication of accumulating reports with best practice from methods of dissemination, incl. with the showroom/workroom.</p>	C16	<p>01/10/2017</p> <p>01/01/2018</p> <p>31/12/2022</p>
<p>A detailed investigation program for monitoring groundwater levels, pollution and land subsidence in Thyborøn and Harboøre Tange.</p> <p>A dynamic adaptation model describing the interaction between e.g. rainwater, groundwater, seawater, and pollution on the basis of a hydrogeological model.</p>	C17	<p>31/03 2018</p> <p>31/12 2019</p>
<p>Hydrological model of the risk of rising groundwater (saltwater) after high tides + Recommendations</p> <p>Booklet about rising groundwater in coastal areas</p> <p>Two articlesa for international periodicals, e.g. Journal of Hydrology</p> <p>Process description for the establishment of a new dike association.</p> <p>Model for local organisation for climate change adaptation and development in Juelsminde.</p>	C18	<p>31/12/2019</p> <p>31/12 2019</p> <p>31/12 2019</p> <p>31/12 2018</p> <p>31/12/2019</p>
<p>Documented stakeholder network methodology</p> <p>Report of conceptual designs for SUDS at Tranebjerg, Ballen and Samsø Golf Course and Besser Made</p> <p>Project video accessible at the C2C CC portal, at the Energy Academy's homepage (with LIFE logo) and at SAK homepage (with LIFE logo).</p>	C19	<p>31/12/2918</p> <p>31/12/2018;</p> <p>31/12/2021</p> <p>31/12/2022</p>
<p>Evaluation report of amount of visitors and business collaboration</p>	C20	31/12/2020
<p>A concluding report with feedback from interviewees on their interest in the Climatorium and a list of potential companies having expressed interest as tenants.</p> <p>A feasibility study of tourism documented in a report.</p>	C21	31/12/2018
<p>Report on the test of installation of a permeable coating (climate road)</p> <p>Sub-report on examination of which filter media the road is best built with to provide the most optimal removal of road-related xenobiotic substances</p> <p>Sub-report on examination of the degree to which permeable surfacing can be integrated with geothermal heating/cooling.</p>	C22	<p>31/12 2018</p> <p>31/12/2022</p> <p>31/12/2022</p>

4 reports of the test results of the infiltration potential methodology 1 guideline with process description of how the infiltration potential map can be prepared. Complementary project description.	C23	31/12/2017 31/12/2018 31/12/2018
4 Open Access scientific papers distributed across Sub-projects 1 and 2: I) 4 popular science/outreach articles Climate tourism brochure for the Region Data on storm flood pillars archived at http://historiskatlas.dk and on CD-ROM A synthetic popular science book on climate and culture history in CDR	C24	30/10/2019 30/10/2019 31/10/2021 31/12/2019 31/10/2023
Monitoring protocols Baseline report Monitoring report for phase 1	D1	31/03/2017 31/07/2017 10/10/2018
Baseline report on flood and risk maps Final monitoring report Monitoring report for phase 1	D2	31/07/2017 10/10/2021 10/10/2018
Monitoring protocols Report on Ecosystem services assessment methodology Monitoring report	D3	31/03/2017 31/3/2018 10/10/2018
Monitoring report for phase 1	D4	10/10/2018
Communication and outreach plan incl. replication strategy Revised replications strategy along with the first progress report. Final replications strategy Report on feedback on quantitative statistics List of media contacts Communication plan for After LIFE activities (F1.1)	E1	31/3/2017 31/09/2018 31/09/2022 31/12/2022 31/02/2017 31/09/2022
1 C2C CC website and 1 online platform 24 notice boards (1 large and 5 smaller notice boards for 4 projects). 12 newsletters incl. articles, progress reports, etc. 1 layman's report in 400 colour copies and online download	E2	31/03/2017 30/11/2017 15/12/2022 10/11/2022
Agenda for the seminar and presentation on review of legal barriers (cf. E3.1) Conference material and one pagers for three C2C CC conferences Booth material (demonstration projects) for use for the three conferences Presentation to use at ENCORE Presentation to use at ICCCGW	E3	31/05/2018 10/01/2018 09/01/2020 15/11/2022 2018 (the date for the conference is not yet set) 10/07/2019
24 press releases over the course of the six years 17 agendas for the "study trips" to the demonstration projects	E4	31/12/2022
1 overview of all Danish projects having received LIFE funding and other Danish projects having received other EU funding and relevant in relation to C2C CC 24 confirmation letters/emails of attendance to events	E5	30/04/2018 31/12/2022
24 short films disseminated on the C2C CC website	E6	31/10/2022
strategy for coordination of the complementary projects and funding bodies Phase 1 progress report Phase 2 proposal	F1	01/06/2017 31/09/2018

Phase 2 progress report		31/08/2019
Phase 3 proposal		
Mid-term report		31/09/2020
Phase 3 progress report		31/09/2022
Final report		31/06/2023
Electronic Log book		
After LIFE Plan		
Report on Kick-off seminar	F2	26/01/2017
Report on Communication workshop		28/02/2017

MAIN MILESTONES OF THE PROJECT

Name of the Milestone	Code of the associated action	Deadline
Desk research and interviews are conducted	A1A1	31/5/20172017
Draft strategy on cross-sectoral cooperation and presentation at the seminar (cf E3.1)	A2A2	31/05/20182018
Desk research and interviews are conducted	A3	31/03/2017
Interviews are conducted and presentation at the seminar (cf E3.1)	A4	31/05/2018
Initial contact is made with LGDK and the first meetings are set up	A5	31/03/2017
Common tender material to be used in the partnership	C1	01/02/2018
Workshop on sustainable approaches to coastal protections		01/06/2019
Workshop on new governance and involvement models		01/06/2020
Compiling experience of warning system	C2	31/12/2018
Investigating the possibilities of areas that can be flooded and possible funding of the investment		01/06/2018
Development of forecasting		31/12/2020
Test and demonstration		31/12/2022
Outline of groundwater flood prone areas on a regional basis including workshop	C3	31/12/2019
Identification of built in conflicts with existing tax system and legislation including workshop		31/12/2020
Relevant use of excess groundwater and the constraints and barriers		31/12/2021
Training and inspirational material for authorities and utilities on how to involve local land owners in implementing SUDS.	C4	31/12/2020
Overview on SUDS experience in C2C CC		01/06/2021
Evaluation on the SUDS experiences within C2C CC.		31/12/2021
Interviews with Danish ministries, networks and universities	C5	01/07/2017
Study tour to Germany and The Netherlands to study organizational and practical solutions on CCA and coastal challenges		31/10/2017
Training course in integrative planning processes and network governance		31/12/2018
6 catchment based workshops with C2C CC partners to define cross-cutting issues and activities and to decide on a common framework for integrative planning (all six workshops)		31/12/2019
Development and formulation of a common regional strategy on CCA with the outset in integrative planning and network governance.		01/07/2019
At least one of the 6 C2C CC thematic partner seminars (stormøde) has adopted integrative planning as a common theme.		01/01/2021
Call service established, where the partners can call the Advisory Committee		01/01/2022
		01/07/2017

<p>Groundwater-surface water model constructed (C6.1) Observation data collected and groundwater-surface water model calibrated All CDR municipalities have applied the tool and use the results in decision making and spatial planning 3D decision support tool is constructed (C6.2) Testing completed All CDR municipalities have applied the tool and use the results in decision making and spatial planning Exploring and testing warning systems (C6.3) DEMA and 5 municipalities have applied an extended warning system module for flood prediction</p>	C6	<p>01/07/2018 31/12/2018</p> <p>31/12/2022 01/07/2018 31/12/2018 31/12/2022</p> <p>31/12/2022 31/12/2022</p>
<p>6 workshops on best practice and/or topical issues; Annually from 31.12.17 to 31.12.22 Advising 10 companies Interviews of 30 clean-tech water companies</p>	C7	<p>31/12/2022</p> <p>21/12/2020 31/12/2018</p>
<p>Project ideas selected and deselected Pilot project prepared Project ready to be executed</p>	C8	<p>31/12/2021 31/07/2022 31/12/2022</p>
<p>Kickoff Meeting with the entire project team. The establishment of the project team with the participation of emergency management units North and South of the Western Limfjord. Analysis of the optimal level of protection available. A cross-border emergency management for handling of storm surge events established. A number of proposals for funding are available.</p>	C9	<p>31/02/2017</p> <p>30/06/2018</p> <p>30/06/2019</p> <p>31/03/2021.</p>
<p>Collection of data for the model and other assessments Elaboration of model and calibrating Screening and qualifying options incl. risk assessment Impact assessment of chosen scenarios and prioritization</p>	C10	<p>31/12/2018 31/12/2022 31/12/2022 31/12/2022</p>
<p>Data collection for the 'Fjord model'; the preparation of this model Analyzes of different scenarios for future climate adaptation Strategy for future land use around Randers Fjord to climate adapt area where there is a collection of knowledge and assessments of activity 1,2, and meetings among stakeholders</p>	C11	<p>31/12/2018 31/12/2018 31/12/2018</p>
<p>Collection of data for the model Establishment of model and calibration Scenario Driving</p>	C12	<p>31/12/2018 31/12/2018 31/12/2018</p>
<p>Registration of cultivation/area use. Agreements with farmers. Transfer knowledge of/present the project's progress and results on the internet, themed meetings and field tours with land associations, and to a wider, national audience. Monitoring of the transfer of knowledge of/presentation of possible solutions and results. Monitoring of the effect of the solutions on water retention, yields, biodiversity, leaching of nutrients.</p>	C13	<p>31/12/2018 31/12/2020 31/12/2020</p> <p>31/12/2020</p> <p>31/12/2020</p>
<p>Collection of data AA model calculating scenarios for the total flooding from the sea, watercourses and sewage systems Clarification of the possibilities for retaining water in the catchment area, including the open countryside and from the urban areas. Solution proposal for water retention, dikes, pumps and if required, barriers in the fjord Citizens and politicians involved in the development of the solutions</p>	C14	<p>31/12/2017 31/06/2018</p> <p>31/12/2018</p> <p>31/12/2018</p> <p>31/06/2019</p>

<p>Technical report for one area on elevated land Leaflet about elevated land Added value barometer finalized Stakeholder integration carried out At least one project description ready for execution A process description on how climate proofing and the setting of goals has occurred through local organising.</p>	C15	<p>31/07/2021 31/07/2022 31/12/2019 31/12/2019 31/12/2021 31/12/2022</p>
<p>Defining the area of the Climate Ribbon as well as analyzes and studies of geographical and biological conditions Prequalification of 4-6 teams and launching competitive process Announcement of the winner of the international "Climate Ribbon Tender" Opening the show room / workroom and holding of regular, annual events, dissemination seminar and development of methods for the use of digital communication forms Preparation of accumulating reports and studies and preparation of a master plan / master plan for Klimabåndets elements - presumably with concrete plans for its parts</p>	C16	<p>01/10/2017 01/03/2018 01/04/2019 During final two years up to 2022</p>
<p>Kick-off meeting with project group 1st large citizens meeting Contract with private company and counselor on development of innovative, flexible pipes A number of conceptual designs that can solve the climate challenges in Thyborøn and Harboøre Tange and contribute added value</p>	C17	<p>28/02/2017 31/02/2018 30/04/2018 31/12/2021</p>
<p>Data loggers established and data logging started. Continued monitoring and verification of hydrological model for C18.1 Dike association created New organisation of climate change adaptation and development in Juelsminde is completed.</p>	C18	<p>31/07/2017 31/07/2019 31/12/2018 31/07/2020</p>
<p>Preliminary investigation and initial involvement of possible stakeholders. Conceptual Design Tender material Preliminary investigations and initial stakeholder involvement, phase 2 Technical background report for modelling Hydraulic modelling incl. zero-alternative, coupled events and climate scenarios. Conceptual Design</p>	C19	<p>31/06/2017 31/06/2018 31/12/2018 31/12/2019 31/12/2019 2021 2022</p>
<p>Application for financing from relevant foundations Stakeholder agreements established with central actors Innovation Camp partnerships agreements closed Optional subject in Innovation/Entrepreneurship provided Water Visits established Innovation Camp is launched</p>	C20	<p>31/03/2017 31/03/2017 31/12/2017 31/12/2017 31/12/2017 31/12/2018</p>
<p>The analysis of company types is finalized Interviews with entrepreneurs and companies are finalized The feasibility study of tourism is finalized Design criteria for the innovation house is finalized and the preparation of zoning plan and the political process is initiated. The conceptual design is finalized.</p>	C21	<p>31/06/2017 31/09/2017 31/12/2017 31/03/2018 31/12/2018</p>
<p>Establishment of a baseline and the preparation of a monitoring programme to First season measurements are evaluated with regard to the sub-projects and any necessary adjustments are made. Third season measurements are evaluated with regard to sub-project goals. Preparation of guidelines, recommendations and reports so that</p>	C22	<p>31/12/2017 31/12/2018 31/12/2020 31/12/2020</p>

experiences gained from the current project are integrated into wider society.		
The statistical clarifications and correlations are finalized Production of a detailed infiltration potential map for the urban development areas. Preparation of recommendations for stakeholders about future working processes for the purpose of mapping the infiltration potential in urban areas.	C23	31/12/2017 31/12/2018 31/12/2019
Milestone 1.I – Nomination of staff Milestone 1.II – archaeological and geological field-investigations complete Milestone 3.I – the synthesis over the Region’s coupled natural and cultural heritage and the C2C CC contributions published Milestone 3 – Climate history brochure for the Region complete Milestone 2.II – Exhibition opens	C24	31/3/2017 31/12/2018 31/12/2023 31/10/2021 31/10/2022
Indicators for added value defined and evaluation questionnaires developed Baseline for CCA plans established Phase 1 monitoring completed	D1	31/03/2017 31/07/2017 10/10/2018
Baseline for flood maps and risk maps established Monitoring in relation to final reporting Monitoring for phase 1.	D2	31/07/2017 10/10/2021 10/10/2018
Ecosystem service assessment methodology developed Data from existing databases related to employment and tourism gathered Coordination with beneficiaries responsible from actions C8-C21 succeeded	D3	31/3/2018 10/10/2018 07/07/2020
Data from existing databases related to employment and tourism gathered	D4	10/10/2018
The first draft of the communications and outreach plan is finished The replication strategy (first draft done) Revised replications strategy along with the first progress report. Final replications strategy (done) The feedback from all the dissemination events are analysed and ready to use for planning of events after C2C CC is finished The media contact list is prepared Communication activities for After LIFE is prepared	E1	31/3/2017 01/06/17 31/09/2018 31/09/2022 31/12/2022 31/02/2017 31/09/2022
Draft version of website and online platform Final version of website and online platform Notice boards for 4 demonstration projects are ready Notice boards for the remaining projects are ready Newsletter 1 is published Newsletter 2 is published Newsletter 3 is published Newsletter 4 is published Newsletter 5 is published Newsletter 6 is published Newsletter 7 is published Newsletter 8 is published Newsletter 9 is published Newsletter 10 is published Newsletter 11 is published Newsletter 12 is published Layman’s report is finalised	E2	26/01/2017 31/03/2017 30/04/2017 30/11/2017 30/06/2017 15/12/2017 30/06/2018 15/12/2018 30/06/2019 15/12/2019 30/06/2020 15/12/2020 30/06/2021 15/12/2021 30/06/2022 15/12/2022 10/11/2022

Seminar on legal barriers + other research is held The first C2C CC conference "The first year" is held The second C2C CC conference "Half way there" is held The final C2C CC conference "Done! What comes next?" is held A presentation at the ENCORE conference A presentation at the ICCCGW conference	E3	31/05/2018 10/01/2018 09/01/2020 15/11/2022 2018 (the date for the conference is not yet set) 10/07/2019
Press release 1-4 are finished Press release 5-8 are finished Press release 9-12 are finished Press release 13-16 are finished Press release 17-20 are finished Press release 21-24 are finished 17 study trips have been planned and executed	E4	31/12/2017 31/12/2018 31/12/2019 31/12/2020 31/12/2021 31/12/2022 31/10/2022
The overview showing Danish projects (LIFE and other EU funds) is finished Participation in 4 events on CCA and/or CCM(year 1) Participation in 4 events on CCA and/or CCM(year 2) Participation in 4 events on CCA and/or CCM(year 3) Participation in 4 events on CCA and/or CCM(year 4) Participation in 4 events on CCA and/or CCM(year 5) Participation in 4 events on CCA and/or CCM(year 6)	E5	30/04/2018 31/12/2017 31/12/2018 31/12/2019 31/12/2020 31/12/2021 31/12/2022
24 short film are finished	E6	31/10/2022
New recruitments and establishment of project management unit Launch of steering group Phase 1 progress report "Clearing House" established Mid-term report Phase 2 progress report Phase 3 progress report Final report After LIFE plan	F1	01/11/2016 06/01/2017 31/09/2018 31/12/2018 31/08/2019 31/09/2020 31/09/2022 31/06/2023 31/06/2023
Kick-off seminar prepared Communication work shop prepared	F2	26/01/2017 28/02/2017

ACTIVITY REPORTS FORESEEN

Type of report	Deadline
Progress Report for Phase 1	31/08/2018
Updated Implementation Plan for Phase 2	31/08/2018
Phase 1 Report with payment request (Final Report)	31/03/2019
Progress Report for Phase 2	31/08/2020
Updated Implementation Plan for Phase 3	31/08/2020
Phase 2 Report with payment request (Final Report)	31/03/2021
Progress Report for Phase 3	31/08/2022
Phase 3 Report with Payment request (Final Report)	31/03/2023
IP Project Final Report for all three phases	31/03/2023
After-LIFE Plan	31/03/2023

C3.3 Reuse of excess groundwater	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C.4: Rainwater														
C4.1: Urban Hydrology and quantity	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C4.2: Knowledge on SUDS' effectiveness in water treatment and maintenance	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C4.3: Citizen involvement	X	X	X	X	X	X	X	X	X	X	X	X		
C5: Governance														
C5.1: New paradigm and a common regional strategy integrating municipal CCA plans	X	X	X	X	X	X	X	X	X	X	X	X	X	(X)
C5.2: Networking and knowledge-sharing	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C5.3: Use of the Advisory Committee	X	X	X	X	X	X	X	X	X	X	X	X		
C5.4: Capacity-building of officials and water professionals on CCA, stakeholder involvement and civil protection	X	X	X	X	X	X	X	X	X	X	X	X	X	(X)
C6: Tools														

C11.2: Assessment of the consequences of establishing a sluice	X	X	X	X	X	X	X	X					
C.11.3: A strategy for decision-making									X	X	X	X	X
C12: The River Gudenå													
C.12.1: Models for the scenario descriptions	X	X	X	X	X	X	X	X	X	X	X	X	X
C.12.2: Stakeholder involvement, choice of projects and the development of vision and goals, etc									X	X	X	X	X
C13: The River Storaå – Demonstration Project Illustrating the Effects of Water Retention at Field Level													
C13.1: Dialogue with stakeholders, identification of suitable land	X	X	X	X	X	X	X	X	X	X	X	X	X
C13.2: Data collection and analyses	X	X	X	X	X	X	X	X	X	X	X	X	
C13.3: Carrying out the pilot and monitoring									X	X	X	X	
C14: Flood-proofing Horsens Town Centre													
C14.1: Preparation of tender material and tender phase for external expert assistance for activity 2 to 5	X	X	X	X	X	X	X	X					

C14.2: Provision of knowledge in the form of status, data collection and model set-up	X	X	X	X	X	X	X	X					
C14.3: Scenario calculations and initial stakeholder involvement	X	X	X	X	X	X	X	X					
C14.4: Preparation of proposals and stakeholder involvement									X	X	X	X	
C14.5: Preparation of project design and invitation to tender material for contractors									X	X	X	X	
C15: CCA in Hedensted and Tørring with focus on growth, added value, sustainability and innovation													
C15.1 CCA of Hedensted town	X	X	X	X	X	X	X	X	X	X	X	X	X
C15.2 CCA in the hinterland and in regard to agriculture									X	X	X	X	
C15.3 Local organizing of CCA in Tørring town									X	X	X	X	X
C.16: Randers Climate Ribbon – CCA as a Driver for Urban innovation													
C16.1: Inspiration from EU projects, international projects, as well as C2C CC partners	X	X	X	X	X	X	X	X					

archaeological perspective													
C24.3: Citizen-near dissemination and marketing of coupled culture and climate history	X	X	X	X	X	X	X	X	X	X	X	X	
D. Monitoring of the impact of the project actions													
D1: Monitoring the project's contribution to the implementation of the CCA plans													
D1.1: Monitoring of the implementation of the CCA plans	X	X	X	X	X	X	X	X	X	X	X	X	X
D1.2: Monitoring of pilot projects	X	X	X	X	X	X	X	X	X	X	X	X	(X)
D1.3: Monitoring of capacity building	X	X	X	X	X	X	X	X	X	X	X	X	(X)
D2: Monitoring of the project's impact on climate objectives													
D2.1: Monitoring of flood risk	X	X	X	X	X	X	X	X	X	X	X	X	(X)
D2.2: Monitoring of carbon emissions	X	X	X	X	X	X	X	X	X	X	X	X	X
D3: Monitoring of the project's socio-economic impact	X	X	X	X	X	X	X	X	X	X	X	X	
D4: Environmental monitoring	X	X	X	X	X	X	X	X	X	X	X	X	X
E. Public awareness and dissemination of results													

