New Expression of Interest (NSG 2.0)

Project Type	Expression of Interest
Call	Call 1 April 2015: EoI and FA
1.1 Project title	New Expression of Interest
1.2 Project acronym	NSG 2.0
1.3 Lead Beneficiary	Middelfart Wastewater Utility, Strandvejen 100, 5500 Middelfart, Denmark
1.4 Start Date	01/10/2016
1.4 End Date	01/10/2020
1.5. Programme Priority	Priority 1 Thinking Growth: Supporting growth in North Sea Region economies
1.6. Specific objective	1.2 Enhance regional innovation support capacity to increase long-term innovation levels and support smart specialization strategies
2.1 Project Summary	In 2020, Guilds 2.0 will have been established – to begin with in two areas wherein the need for changes and innovations is high: Climate Change and Water Technology. The transnational Guilds 2.0 are based on the old European guild system of apprentice, journeyman and master. We will adapt these to modern society and address the challenges of the 21st Century. Guilds are the institutions delivering the technical and social innovation needed for dealing with the complex challenges presently facing urbanised areas of the North Sea Region: Climate- , spatial- and technological change. Guilds 2.0 are capable of providing just that, by uniquely combining the primary factors of innovation needed in the region: • Vocational and professional training and education close to the concrete issues at hand • Creating the combination of technological and social innovation – related to new apprentice, journeyman and master relationships • Methods for dealing with presentday complexity • A format for executing programmes such as INTERREG, in which intricate combinations of public, private, vocational, professional and scientific knowledge, skills and adaptivity are needed to guarantee success Through the INTERREG project we will develop and implement the Guilds 2.0 framework and apply it to concrete projects at partner city level. In all partner cities, we will organise so-called transnational *Worksteads*, where people from different disciplines and with varying skills work together.
2.2 What are the shared territorial challenges that will be tackled by the project?	There are two challenges: Technical and social. We believe that technical innovations need social innovations. They are intertwined. • The technical challenge relates to urban water. We focus on climate change adaptation and implementing new water technologies. Both are complex by nature. Urban areas are developing and changing continuously. The heart of the challenge is to add concepts for climate change adaptation and new water technologies, so both economic competitive strength and liveability will increase, in a learning process: You have to know history to understand the present and to shape the future. It is an ongoing process. • The social challenge relates to knowledge. In the North Sea countries, we face a huge problem. Within a few years, we will face a shortage of people with sufficient technical and technological skills on a practical level, who are capable of translating innovative

ideas from paper to the real world. The other way round, there will be an abundance of people translating the real world into paper. People skilled in good governance are rare too, whilst experts from scientific backgrounds are losing contact with the experienced world behind their models, marooned behind their computers, as they are, their models and practices growing apart. Earlier work has uncovered that craftsmanship in all fields, and on all levels - ranging from the purely vocational to the managerial and governmental - has been marginalized. We, the partners in this proposed project, are convinced that Guilds 2.0 are needed to bend this downward spiral into an upward spiral.

2.3 What is the project's approach in addressing these shared challenges and/or joint assets and what is new about the approach the project takes?

1st North Sea Guilds 2.0

We propose to reshape and reinvent the classic system of European Guilds. The classic guilds were characterised by apprentice, journeyman and master relationships. In 2020, at the end of the INTERREG project at least two functioning Guilds 2.0 will be up and running in a sustainable and therefore institutionalised way. The first Guild focuses on **Climate Change Adaptation**, the second on **Water Technology**. Reinventing the guilds system, it must be transposed to the 21st Century and thereby geared to dealing with the complex issues and opportunities that emerge at the crossroads of climate change, water technology and urbanisation. We call this new guilds system "The North Sea Guilds 2.0".

To begin with, we will start implementing Guilds 2.0 on a manageable scale, namely that, of the partner cities and in the two interrelated fields. The ancient guilds were institutionalised structures of (vocational) training and education that revolved around the working relationship of masters, journeymen and apprentices. Research and (own) experience have taught us the wisdom of this structure. We propose to maintain this structure in Guilds 2.0. However, we also propose to develop and innovate its implementation. The role of the journeymen will be central to this development: They will constitute the linking elements/ambassadors of crafts, crossing borders both nationally and disciplinary. Practically, i.e. within the scope of this proposed INTERREG project, the journeymen will become the linking elements between the various national partner projects – just as they will be further on, when The North Sea Guilds 2.0 will have become a reality.

Furthermore, we will introduce the *Workstead* format as an important social innovation and building block of North Sea Guilds 2.0. This format has been developed and tested within the Dutch context over the last ten years. Unique within the Workstead context, is the cross sectoral dialogue between professionals from government, businesses (SME's), academia (including students), (vocational) education and politicians - their various forms of craftsmanship being evoked and joining.

2nd Educating Craftsmen 2.0

We will deliver two new programmes for educating and training *craftsmen 2.0*. One within the field of Climate Change Adaptation. The other within the field of Water Technology.

Developing new forms of craftsmanship – let's call them 'Craftsmanship 2.0' – needed for dealing with the challenges mentioned above, asks for renewal of educational programmes. Craftsmen 2.0 distinguish themselves from craftsmen 1.0 by their skills and by sharing these skills and tacit knowledge in a both interdisciplinary, trans-hierarchical and transnational complex setting. The educational programmes will be developed and implemented in the wake of Guilds 2.0. We intend the programme(s) to be built on:

1. Enabling (young) people to participate in Worksteads as apprentices 2.0
2. A new (multilingual?) app - a telephone or tablet based medium - to be developed during the project, allowing young people to define, build, play and learn within the context of simulated Worksteads.

3rd Concrete deliverables generated by partner projects

Partners will develop and implement specific climate change projects in existing urban areas and new water technologies. This will be done within the Worksteads – with each individual project being embedded in one Workstead, specifically designed for that one project. Thus, each project can benefit from that framework whilst at the same time serving as testing ground for the Workstead format and hence contributing to the formation of the Guilds 2.0.

See the list of proposed partner city innovation projects within the fields of urban climate change adaption and water technology further down.

2.4 Why is transnational

We claim that the project North Sea Guilds 2.0 fully depends on cross border cooperation.

cooperation needed to achieve the project's objectives and result?	Climate change and technological development do not stop at national borders. Furthermore, the complexity of the problems emerging at the crossing points of climate change, technological development, and urbanization is such, that interdisciplinary cooperation is insufficient: It must be complemented by a transnational approach, especially when we intend to increase economic competitive strength. For the SME's involved, an international market is pre-condition. In addition to transnational project work at the local project level, the guilds model will be replicated in the delivery of the whole project. Thus, an overarching level of transnational learning is expected to emerge. The project partners will both provide the workstead framework, and train and support transnational journeymen interacting at the project level activities in addition to normal project partner meetings and conferences. This approach moves away from previous INTERREG practices of local pilot project activities and transnational pilot activities to a much more integrated and genuinely transnational approach to all aspects of the project. We intend to develop this into a model for future INTERREG (or comparable) programs and projects.
3.1 Project overall objective	The overall objective of the NSG 2.0 project is a tested, operational and institutionalised version of the Guilds 2.0 format, to be further developed and applied in future projects and programmes in the North Sea region. The proposed Guilds 2.0 format is the outcome of the application - as well as the actual testing of a variation of local climate adaption pilot projects and new water technologies and processes, using Worksteads and other aspects of the Guilds 2.0 format. **The North Sea Guilds 2.0 will enable:** **A: The effective release and usage of local/regional/national tacit knowledge needed to develop and implement innovations in climate change adaptation and water technology under complex conditions.** **B: The development, training, education, deployment and implementation of new forms of craftsmanship within the (social) innovation processes needed for the development of sustainable, resilient and liveable cities in the North Sea Region.** At local Partner City level, the North Sea Guilds 2.0 project has a structural framework hinged upon the transnational *Workstead* format, within which, a wide range of disciplines are participating - i.e. knowledge of urban water management and water technology in a local/regional/national cultural heritage perspective, engineers, urban designers, craftsmen, educational institutions at various levels and SME's. The Guilds 2.0 Partner City innovation projects take point of departure from both local cultural heritage, urban water management and water technology and present local challenges and visions for ensuring sustainable, resilient and liveable Climate Active Cities. The results of all the partner city projects, derived and shared trough the transnational Workstead framework, will form the initial platform for the North Sea Guild 2.0 structure. The local innovation project activities are expected to be hinged upon: • Uncovering and proof testing local/regional/national tacit knowledge in relation to water management and water technology. • Enabling, facilitating and supporting the development, deployment and implementation of new forms of craftsmanship in the innovation processes related to the development of sustainable, resilient and liveable cities (Climate Active Cities). • Reintroducing the apprentice, journeyman and master relationships • Creating so-called Worksteads, places where people with different backgrounds work together intensively on a small, local and concrete project in a narrative way. • Contributing to the formation of the institutional structure of The North Sea Guilds 2.0. The idea for the INTERREG 5B North Sea Guilds 2.0 project is that partners launch several Worksteads focussing on aspects of the CAC. By recalling and reinventing the traditional master – apprentice – journeyman structure within the field of craftsmanship the NSG 2.0 project focuses on the master's tacit water management and water technology knowledge and craftsmanship; the learning of the apprentice and the opportunity for the journeyman to travel and work at both local and partner city Worksteads. By involving young people from schools, a new learning environment will emerge.

After completion of this four-year project, the North Sea Guilds 2.0 structure will stay active and both the guilds and the best practice solutions will have become central and indispensable elements in the European effort to ensure the development of sustainable, resilient and liveable cities.

The progress and the results of Guilds 2.0 will be made widely available on a new Guilds 2.0 website, which will be launched within the second year of the project. The results will furthermore be published on appropriate partner city websites and in both national and international articles.

The overall objectives of the North Sea Guilds 2.0 project and how it links to the programme's objective

The above mentioned objectives (A and B) are directly linked to several of the Output Indicators for Specific Objectives of Priority 1.

Indicator 2.1 / Number of improved or new innovation support measures launched for enterprises corresponds with the objectives listed in B.

Indicator 3.1 / Number of new and/or improved climate change adaptation solutions demonstrated is matched by the objectives listed in A.

3.2 Project results

The project results delivered will be the following:

- Technical innovations: Development and implementation of specific projects focussing on climate change adaptation and water technology. The lessons learned from these will be made available both through a "Handbook Guilds 2.0" and via an app-based online medium.

- Social innovation: Two sustainable North Sea Guilds 2.0 that will keep developing further after the project in 2020. The INTERREG project is the first conditional step to give an initial impetus to the forming and the institutionalising of the guilds.

The results of the North Sea Guilds 2.0 project and how it links to the Programme Result Indicators

The results of the North Sea Guilds 2.0 project are directly linked to *all three Programme Result Indicators of Priority 1*:

For example Result Indicator 1.1/Capacity of Knowledge partnerships in the NSR to deliver marketable products, service and process innovations.

The entire founding concept of the North Sea Guilds 2.0 project rests upon Knowledge Partnerships – both the revival of the guilds system and the close cooperation of SMEs with educational institutions of all levels within the transnational Workstead innovation format.

Particular contributions to the Project Results. Partner Cities

Middelfart Wastewater Utility, Middelfart, Denmark

The company of Middelfart Wastewater Utility is well known in Denmark for its participation in different kinds of water technology and climate adaptation projects, aiming to be the liaison between knowledge institutions, authorities, utilities and private companies. Middelfart Wastewater Utility is together with the Municipality of Middelfart member of the Danish Cleantech Cluster, "CLEAN" and the innovation network, "Water in Urban Areas". Among the different measures taken in Middelfart, can be mentioned the ClimateCity and the ClimateHarbour projects and, on an overall strategic level, the cooperation of the municipality and the utility to develop Middelfart to become "The Climate Laboratory of Denmark". The Guilds 2.0 innovation projects in Middelfart are thus going to support the vision of creating green growth and development - not only in Middelfart, but in the North Sea Region as a whole.

Province of Fryslân, The Netherlands

For over a decade the province of Fryslân has been dedicated to building an innovation ecosystem for breakthrough innovation in the field of water technology. This has resulted in the creation and expansion of WaterCampus Leeuwarden, a place where education, research, innovation and entrepreneurship in water technology form core components.

Wetterskip Fryslân – the Water Board – has a long history in sea defense, water quantity and water quality management. Within its labour force, a lot of tacit knowledge is stored. The

challenge is to transfer this knowledge to young as well as to future employees. That is why Wetterskip Fryslân is actively involved in the development of the education system at the Centre of Innovative Craftsmanship Water (CIV-Water) for vocational education and training in water technology.

Wetterskip Fryslân is also an important launching customer for implementation (and testing) of new (water) technology. They are continuously working with a number of projects that are suitable for application in the North Sea Guilds 2.0 - combining disclosure of tacit knowledge, education of students, and testing new technologies of SME´s.

The input of CIV Water will be the students and teachers at the vocational education and applied sciences levels in the projects from Wetterskip Fryslân. They will have an active participation in the projects and the gained knowledge will be used in the regular education and in the Worksteads. The knowledge workers from the Water Board will be their masters. The teachers and knowledge workers will cooperate to innovate the education materials and share this with other schools at vocational and applied science level.

At WaterCampus Leeuwarden the education system spans from level one to eight of the European Qualifications Framework – that is from primary school to PhD, which In a global context, is unique.

City of Emden, Germany

Since the 1990-ies, the partner City of Emden has been dealing with eco- and climate-friendly activities and has won several awards for this engagement, e.g. “eea-Gold”. Emden would like to bring in these experiences and competences and can thus offer great know-how within the fields of development of new measures concerning water management and water technology. With the implementation of pilots two approaches can be tested as examples.

Abertay University, Dundee, Scotland

Abertay University has expertise in working with Local Government and SMEs in developing environmentally themed projects and support interventions around their needs. New technological approaches can only be implemented with the full engagement of a wide range of stakeholders. The Urban Water Technology Centre has wide experience in facilitating inclusive decision making for sustainable development to support the uptake in society of sustainable technologies. Research in this area examines ways of ensuring that the social technological and economic aspects of sustainable technologies and sustainable development are considered within decision making processes. This work involves the selection, testing and application of current and new sustainability indicators to convey, to a wide range of stakeholders, the data that are necessary for sustainability assessment and monitoring throughout the life of projects. This requires a detailed understanding of decision making processes to ensure the indicators are appropriate to the needs of the stakeholders to enable adequate consideration is given to sustainability issues throughout the process.

Abertay is also a world leading centre for sustainable Urban Drainage Systems (SUDS) which encourages a radical new way of thinking about urban drainage systems as epitomised by the Quality - Quantity - Amenity triangle. SUDS, or sustainable urban drainage systems are a sequence of water management practices and facilities designed to drain surface water in a manner that will provide a more sustainable approach than what has been the conventional practice of routing run-off through a pipe to a watercourse. The principle of sustainable urban drainage has been realised in practice in a number of developments in Scotland following its early adoption into law in Scotland 2006. The concept of SUDS (initially called BMPs) was identified as being the key means of addressing these problems of urban storm water management and related pollution. The principle of dealing with surface water runoff at source has now been taken to heart in the development and redevelopment of surface runoff systems in Scotland. Abertay has examples of best practice both in terms of engineering and public safety, where the design has been well executed and where SUDS has achieved greater integration with wider landscape and nature conservation objectives.

Michael Pye, Author. Participation to be confirmed

The idea of inviting Michael Pye to participate as a consultant in the North Sea Guilds 2.0 project hinges on his particular insight into cultural heritage based tacit knowledge, related to the traditional guilds and the master-apprentice-journeyman structure within different fields of craftsmanship in the North Sea Region.

Michael Pye is furthermore expected to contribute to the NSG 2.0 project with his unique and very broad knowledge of the history of The North Sea Region as a basis for understanding the

present and the future.

Consultants, Dr.ir. Govert D and drs Gijsbert van der Heijden MBA

This document reveals some possibilities for connecting us to the Guilds 2.0 as consultants. We have developed and have been doing a lot of research on Worksteads and craftsmanship over the last years and have, based upon this research, developed essential aspects of the concept and model of The North Sea Guilds 2.0 as it presently stands. We can (1) contribute with our experience and (2) cooperate in developing and implementing these concepts and practices even further. To do so, we propose to act at three levels in The North Sea Guilds 2.0 INTERREG project. The first two levels deal with the project as a whole, the third level applies to the individual partners:

1. Reflection level
2. Building Guilds 2.0
3. Worksteads

1. *Reflection level* . This level focuses on reflection and learning from the project as a whole during its course, together with the lead partner, twice a year, and/or in partner meetings. At this level we somehow guard and develop the philosophy about craftsmanship and Guilds, Worksteads and the relationship between these and the actual and concrete content of the individual partner projects.
2. *Building Guilds 2.0.* At this level we will produce a Guilds 2.0 Course and 'Handbook' which at least partly will be a web based programme, showing in what way the Guilds 2.0 can be institutionalised and operated, and how Worksteads can be organised and guided, in a practical way. The Guilds 2.0 Course and Handbook will be based on the reflections, the outcome of partner meetings and the Worksteads evaluations. After two years we will produce the first draft. In an interactive process we will improve the product.
3. *The Worksteads.* In principle, we will not organise Worksteads ourselves, except those for the Dutch partners. Mainly because, it is essential for the Workstead managers to be able to speak their mother tongue. We will however coach and train people to do that work: Setting up Worksteads, so all partner cities can get the best results out of it. Moreover, we will set up a web based distance learning and communication tool, allowing us to observe the process, give feedback and discuss. We estimate a total of three Worksteads per partner. Besides that, we will organise so-called Knowledge Cafés where especially Journeymen will share experiences. These Knowledge Cafés will be transnational with the participation of Journeymen from all partner cities. We estimate four transnational Knowledge Cafés a year - one Knowledge Café in each partner city/country every year.

3.3 Project detailed objectives

Title	Description
Abertay University. Detailed project objectives. Pilot 2 (Abertay University & Fife Council) Participation in local development planning	It has been seen in earlier local plan engagement with communities that the presentation of proposals can be impenetrable. The project will create a tool, which allows the testing of master plan options in a more visual and easily understood manner, to contribute to high quality engagement on all these issues with communities and community partners
Abertay University. Detailed project objective. Pilot 1. (Abertay University & Fife Council). Integrating Sustainable Urban Drainage	This activity will share knowledge of best practice in sustainable drainage to new urban redevelopments and retrofit. Lessons learnt from experience will be applied to a large local development plan. Knowledge elicitation and management and knowledge sharing between key actors will centre on the concept of guilds.
City of Emden. Detailed project objectives. Pilot 2. (location City of Emden). Natural Improvement of Inner City Canals	Due to climatic changes, rainfall drainage must be adapted and re-designed for the entire metropolitan area. For this reason, historical ditch systems will be reopened, reactivated and strengthened. The aim is to create a sustainable, climate-resilient system based on the combination of traditional systems and modern technical engineering know-how.
City of Emden. Detailed project objectives. Pilot 1. (Location City of Emden). New Housing Area	Housing estate development in low-lying regions face challenges due to climatic changes. In the construction area new solutions for sustainable drainage and good microclimates must be found. With

“Conrebbersweg”	an adjacent historic district, historical heritage must be taken into account. Knowledge gained in this project is applicable to other North Sea Regions.
Province of Fryslân. Detailed project objectives. Pilot 2. (Location Drachten). Innovative tendering for sludge treatment	The 2nd workstead is the renovation of the wastewater treatment plant (WWTP) in Drachten. The sludge treatment is placed in an integrated tender. The offered innovative solutions of private companies (a.o. SMEs) will be used to improve public service i.c. treating wastewater. Implementation/co-operation with the winning SMEs is part of the pilot.
Province of Fryslân. Detailed project objectives. Pilot 1. (location City of Sneek) Decentral sanitation in the City of Sneek	In the Waterschoon Sneek project, wastewater from 232 new houses is collected separately at source and cleaned in a small sewage treatment plant located locally. Energy is generated by biogas production and heat recovery. It is the first project in the world on this scale. The project will be used as a workstead and learning shared via NSG 2.0
Middelfart Wastewater Utility. Detailed project objectives. Pilot 3. (Location: Municipality of Middelfart. Middelfart as a Climate Laboratory)	The work on climate mitigation/adaptation in Middelfart will, through worksteads reveal the possibilities to develop Middelfart as Denmark’s Climate Laboratory - a shared strategic vision of the municipality and utility of Middelfart. Partners will be educational institutes + SMEs thus creating the tetra helix structure needed to drive innovation
Middelfart Wastewater Utility. Detailed project objectives. Pilot 2. (Location: Municipality of Middelfart) Mobilization of local citizens in the maintenance of SUDS	Moving towards the vision of liveable cities, a redefinition of roles/responsibilities of expert professionals and citizens is required. By advocating the ideas of multiple-value creation, this project aims to develop a best practice method for mobilizing local citizens in the co-creation and co-maintenance of SUDS in an urban (public) context.
Middelfart Wastewater Utility. Detailed project objectives. Pilot 1. (Location: Municipality of Middelfart) RAINROOM (SUDS 2.0) - A new generation of SUDS	The aim of the RAINROOM project is to develop *robust, sustainable solutions to handling rainwater in an urban context, that integrate the everyday usage of local citizens of all ages.* The cultural heritage of usage of plants is part of the project, that also focuses on sound economic solutions that integrate tacit knowledge in water management.
NSG 2.0 joint Partner City. Detailed project objectives. Pilot 4. The North Sea Guilds 2.0 Worksteads	Setting up project related Worksteads in all partner city projects + developing a web based long distance learning / communication tool for setting up the worksteads transnationally. Additionally, transnational Knowledge Cafés will take place yearly in each PC. The KC's focus on challenges + innovation in Urban Water Management and Water Technology.
NSG 2.0 joint Partner City. Detailed project objectives. Pilot 3. The North Sea Guilds 2.0 app-based online medium and Guilds 2.0 Handbook	Production of a Guilds 2.0 Course and ‘Handbook’ - a partly web based programme, showing how the Guilds 2.0 can be institutionalised and operated, and how Worksteads can be organised and guided, in a practical way
NSG 2.0 joint Partner City. Detailed project objectives. Pilot 2. The North Sea Guilds 2.0 website	Sharing knowledge is central within the NSG 2.0 project. Establishing a North Sea Guilds 2.0 website is a prerequisite to sharing knowledge on: • The institutional framework of The North Sea Guilds 2.0 • The 2 initial North Sea Guilds • The Guilds 2.0 Handbook • The transnational Workstead framework • The NSG 2.0 innovation projects and the learning from these

NSG 2.0 joint Partner City. Detailed project objectives. Pilot 1. Planning and Implementation of the institutional structure "The North Sea Guilds 2.0"	**Acquiring insight into:** • Cultural heritage based tacit knowledge within the fields of Urban Water Management and Water Technology; • The traditional European guild system of apprentice, journeyman and master relationships. **Establishing 2 initial guilds within the North Sea Guilds 2.0 framework:** • NSG 2.0 Climate Change Adaptation • NSG 2.0 Water Technology

4.1 Project partners overview

Beneficiary Name (Abbr.)	Legal status	City/Country	Total eligible budget (indicative)
Middelfart Wastewater Utility (MWU)	Public	Middelfart DENMARK	1.435.000 €
Province of Fryslan, Economic Department, Programme Water Technology (PF)	Public	Leeuwarden THE NETHERLANDS	760.000 €
City of Emden (Municipality) (CE)	Public	Emden GERMANY	1.000.000 €
Abertay University, Division of Environmental Engineering and Systems Visualization, Science Department (AU)	Public	Abertay UNITED KINGDOM	410.000 €
Geldof c.s. Dr.ir.Govert D. Geldof (fee to be nogotiated) (GG)	Private: De Minimis	Tzum THE NETHERLANDS	170.000 €
Gijsbert van der Heiden (fee to be negotiated) (GH)	Private: De Minimis	Rondte THE NETHERLANDS	170.000 €
Michael Pye (to be confirmed) (MP)	Private: De Minimis	London ? UNITED KINGDOM	20.000 €

4.2 Project budget summary

Financing source	Programme co-financing	Public and private contributions	Total eligible budget
ERDF	1.982.500 €	1.982.500 €	3.965.000 €
Norwegian funding	0 €	0 €	€
Total	**1.982.500 €**	**1.982.500 €**	**3.965.000 €**

4.3 Investments

Title	Description	Explanation
Invetsments in the Scottish NSG 2.0 project. Meetings, conferences, seminars	20.000 €	Meetings, conferences, seminars
Investments in the NSG 2.0 projects. Travel and accommodation	50.000 €	Travel and accommodation

Investments in the Scottish NSG 2.0 projects. External experts	30.000 €	External experts
Investments in the Scottish NSG 2.0 projects. Staff	300.000 €	See 3.3. Cost of material investments /infrastructure are not included
Investments in the German NSG 2.0 projects. Pilot 2	250.000 €	See 3.3 Overheads not included
Investments in the German NSG 2.0 projects. Pilot 1investments	250.000 €	See 3.3 Overheads not included
Investments in the German NSG 2.0 projects. External Expertise	125.000 €	External Expertise
Investments in the German NSG2.0 projects. Staff	240.000 € (new staff) 125.000 € (existing staff)	Staff - new and existing
Investments in the Dutch NSG 2.0 projects. Control costs	15.000 €	Audit
Investments in the Dutch NSG 2.0 project. Meetings, conferences, seminars	20.000 €	Meetings, conferences, seminars
Investments in the Dutch NSG 2.0 project. Travel and accommodation	50.000 €	Travel and accommodation
Investments in the Dutch NSG 2.0 project. External Experts	65.000 €	External experts
Investments in the Dutch NSG 2.0 projects. Staff	600.000 €	Staff. In the Dutch project budget, the cost of material investments /infrastructure are not included. These investments will be financed separately
Danish NSG 2.0 project investments. Lead partner Audit	80.000 €	Continuous and final audit
Invetstments in the Danish NSR Guilds 2.0. Project communication	50.000 €	Writing articles and hosting + updating the Guilds 2.0 website etc.
Investments in the Danish NSG 2.0. Project meetings DK level	35.000 €	Project meetings with the Danish project partners: Educational institutions, SMEs and The Municipality of Middelfart
Conference and project partner city meetings. Arranged/motivated by Lead Partner	250.000 € - to be negotiated in connection with talks on the development of the Worksteads. Thus, the financing of this investment is NOT shown in the budget.	4 annual project partner meetings plus relevant NCR conferences (collectice costs for all partner cities)
Investments in the Danish NSG 2.0 projects. External experts DK project level	30.000 €	Local experts in Urban Water mangement and Water Technology combined wih computer based

		learning
Investments in the Danish NSG 2.0. Pilot 3 investments	200.000 €	See 3.3
Investments in the Danish NSG 2.0 projects. Pilot 2 investments	30.000 €	See 3.3
Investments in the Danish NSG 2.0 projects. Pilot 1investments	350.000 €	See 3.3
Investments in the Danish NSG 2.0 projects. Project manager + staff (Pilots)	400.000 €	Staff
Investments in the Danish NSG 2.0 projects. Conferences and Project Partner City meetings	250.000 €	4 annual project partner meetings plus relevant NCR conferences (collective costs for all partner cities)
Investments in the Danish NSG 2.0 project. Lead Partner project administration	Not known	Lead beneficiary management costs will be defined in the Full Application
Joint Partner City investments in the NSG 2.0. The North Sea Guilds Worksteads	200.000 € The cost is in principle shared evenly by all partner cities.	Consultants, setting up of the worksteads, knowledge cafés, production of a long distance online medium app + costs of support and travel of the journeymen. This investment needs further discussion amongst the partner cities - and the cost may change as a result of this.
Joint Partner City investments in the NSG 2.0. Pilot 3. The North Sea Guilds 2.0 app-based online medium and handbook	140.000 € The cost is in principle shared evenly by all partner cities	Production of a Guilds 2.0 Course and 'Handbook' - a partly web based programme
Joint Partner City investments in the NSG 2.0. Pilot 2. The North Sea Guilds 2.0 website	20.000 € The cost is in principle shared evenly by all partner cities.	Developing website + testing
Joint Partner City investments in the NSG 2.0. Pilot 1. Planning and Implementation of the institutional structure "The North Sea Guilds 2.0	40.000 € The cost is in principle shared evenly by all partner cities	Planning and implementing 2 Partner city cultural heritage / conferences Consultant fees Staff (existing and new) Producing input to website etc.

Funding confirmation	- I confirm that the activities and costs included in this application have not and will not receive any other European Union funding in addition to the grant from the North Sea Region programme.
Created by	Helle Baker Norden @ Middefart Wasterwater Utility
Sent to JS	Yes
Date of submission	30/06/2015 19:39:08