





PIANO SRIA Meeting Brussels, May 15th, 2018

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CEWP PI Lot 5









Agenda

- Brief introduction to the CEWP
- Activities during 2018
- Overall perspectives from the Partnership Instrument (PI) on policy dialogue, research and business exchange activities
- The CEWP PI Project
- Upcoming Business & Innovation Dialogue Pilot Event at CWEC Qingdao June 27th-29th, opportunities for European Stakeholders
- Q&A

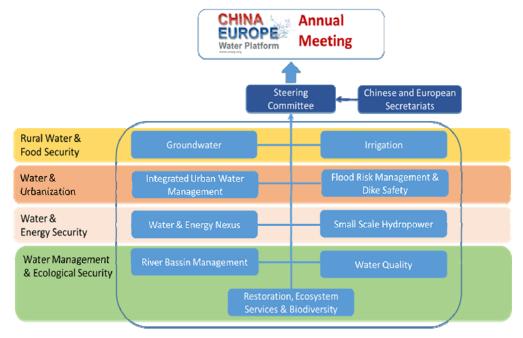








CEWP - basic structure



3 pillars – 1 policy dialogue 三大支柱- 一项政策对话

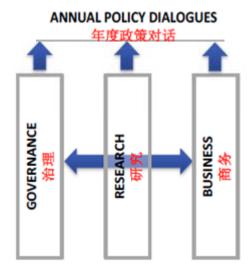












Figure 1 Expert exchange between EU, Danish and DRC experts



Figure 2 DRC President Yang Derui hands over China Water Development Report to GEUS Deputy Director Bjørn Kaare Jensen



Figure 3 Workshop at China Hall of Science and Technology



Figure 4 CEO Lars Schrøder, Aarhus Water, Denmark









Annual Meeting, Turku, Finland, 2017



Declaration for 2017 High-level Dialogue of China Europe Water Platform

2017 年中欧水资源交流平台

高层对话会宣言



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CEWP 2018

- Secretariat: Finland 2018-2019, Portugal 2020-2021
- 'New' MS becoming to take an active role in CEWP: Italy (climate change), Estonia (ICT and water), possible Hungary.
- Discussions about restructuring the CEWP, and active role of PI in the implementation of the CEWP Work Programme in coming 4 years
- European Coordination Meeting, Paris, April 11th, 2018
- Joint Steering Commettee, Qingdao
- Annual High-level Meeting, tentatively in November in China (Beijing?), tbd.



CEWP Lot_1

Water management & ecological security



IOWater in China / CEWP

China Europe Water Platform (CEWP)

Context:

- Creation in March 2012,
- 4 Focus Areas:
 - Water and Food: Rural water challenges,
 - Water and Urbanisation: Urban water challenges,
 - Water management and ecological security,
 - Water and Energy: Water use in the Energy sector, and energy use in the Water sector.

Work programme 2015-2017:

- France, represented by the IOWater will be leader of the focus area 3 "River Basin Management and ecological security" and co-lead on IWRM at basin level
- Fields of activity:



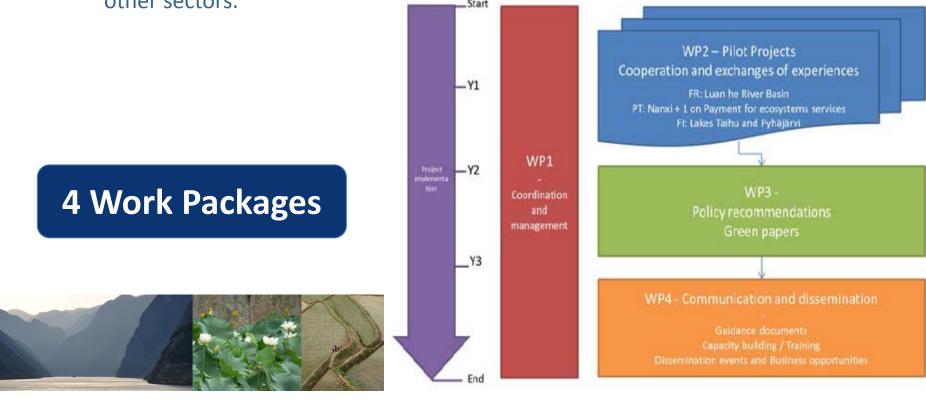


Overall objective

• To co-create new information, knowledge and recommendations on water management and ecological security with Chinese partners based on IWRM/NEXUS river basin approaches.

 Learning from European practices and adapting them to better fit in natural and socioeconomic environment in China to be used in strategic policy dialogues with Chinese counterparts, co-design of strategic plans within water sector and also with

other sectors.



Target groups: Ministry of Water Resources, Development Research Centers (DRCs), Water Conservancy Commissions and local authorities (Water Resources and Environmental Protection Bureaus; sectoral users, water and sanitation services and operators...)

Final beneficiaries: Chinese citizens of the Basins, Policy makers (incl. local authorities)

Estimated results:

- Policy recommendations,
- Dissemination of the results,
- Improvement of capacities (of staff from river basins commissions and local authorities),
- Lessons learned from pilot basins projects.

Main activities:

Pilot basin activities, experts' missions, trainings, seminars and workshops, policy recommendations and guidelines elaboration, coordination activities and



Current status of the project

• Launch of the global coordination process (including internal and quaterly meetings and reports), and the communication strategy that in line with Lot 5 communication approach.

Missions & related activitives are organized to develop each pilot project:

- France of the Hai river basin (to collect, gather and synthesize knowledge on the state of water resources and main stakes of water resources management in the Luan river sub-basin)
- Portugal of the Pilot Project Nanxi (Collection of baseline information + start of the synthesis of results and experiences to lay the basis of green papers)
- Finand of Lake Taihu and Lake Pyhajarvi (comparison matrixes for governance structures, and status assessment and monitoring methods in order to identify similarities and differences in management practices)

The Tendering for sub grants to be started (PT & FIN)

 All partners will participate to the CEME PL Kick off and joint steering committee in Ologdao International water congress 26th to 29th June



ī:

APPLICATION OF PIANO RESULTS



EU Partnership Instrument Lot 2 Rural Water and Food Security



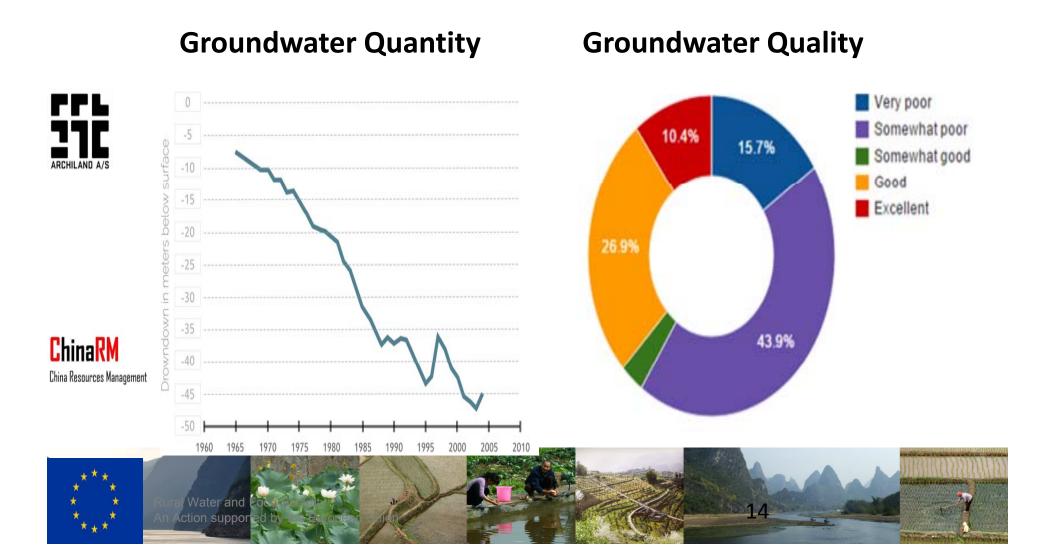


PI Rural Work Packages

		Description
	er	
TTL 77F	1	Management and Administration
ARCHILAND A/S	2	Policy Dialogues and Business Conferences
	3	Protection and restoration of groundwater dependent ecosystems
ChinaRM	4	Monitoring, mitigation and reduction of diffuse pollution of groundwater
China Resources Management	5	Water saving in irrigation and water allocation
The state of the s	6 ural Water and Food	
****	n Action supported t	Managed Aquifer Recharge



Challenges



Objectives

- Identify
 - Affordable technologies for removal of common groundwater pollutants in the dry northern areas of China
- Demonstrate
 - Safe groundwater-based water supply in rural areas of China.
- Mobilise
 - Companies having or developing technological water innovations, which they are interested in testing under controlled field conditions



Approach

Sit

Research Groundwater regimes in Northern China

Review PIANO TWIs

3

Identify and invite SME TWIs via WssTP

4

• Install and monitor performance in China

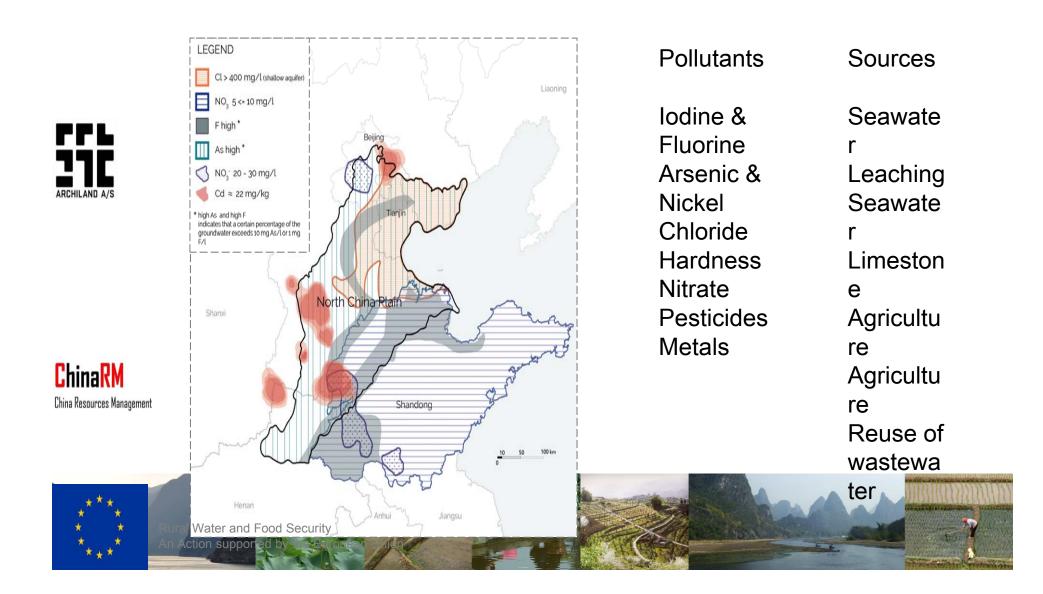
ChinaRM
China Resources Management

Market successful TWIs via CEWP





Groundwater pollutants

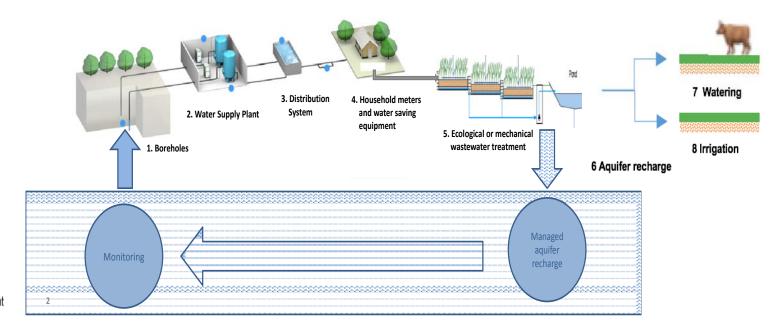




Test in integrated system

Groundwater-based water supply & village-level wastewater treatment











Initial activities and results

Dissemination at WssTP

- Water Knowledge Europe (November 2017)
- Water Market Europe (March 2018)
- Water beyond Europe Working Group

Expression of interest from 20 EU SMEs







CEWP-PI China Europe Cooperation on Sponge Cities

"Restore the city's capacity to absorb, infiltrate, store, purify, drain and manage rain water and regulate the water cycle as much as possible to mimic the natural hydrological cycle"

The cocept is not just dealing with "too much water" but also reuse of rain water; mitigating the impacts of "droughts", recharging groundwater bodies, supplying city ecosystems, enhancing the livability of cities ...











Challenges for Sponge City Implementation

- The need for more integrated and adaptive aproach
- The need for improved decision support tools
- Costs and (long term) financing, currently huge costs that do not make the concepts sufficiently sustainable
- The need for learning and upscaling between and beyond existing sponge cities
- Beijing and Changde will serve as pilot cities and will liaise in this project with four European cities; Amsterdam, Copenhagen, Gothenburg and Turku



We need collaborations, because we learn faster together 我们需要合作,因为可以得到更快的发展



Lot 4: Sustainable Hydropower Use and Integration in China and EU (SHUI-ChE)

Work packages (WP) 1-6



 Project monitoring (on all WPs) (Monthly Progress Update Forms, PUFs) Financial management Project reporting (Narrative including PIMS, Financial) Shui-che Kick-off meeting (Intermediate coordination meeting) 	Continiously Continiously/end of year Continiously 7-8 Feb, Gothenburg
3. Project reporting (Narrative including PIMS, Financial)4. Shui-che Kick-off meeting (Intermediate coordination	Continiously
4. Shui-che Kick-off meeting (Intermediate coordination	,
<u>-</u> ,	7-8 Feb, Gothenburg
5. ONLINE Lot 4 Consortium coordination meetings (1 hour) (Intermediate coordination meeting)	 1. 23 Feb (PIMS Skype training) 2. 16 April 2pm CET (after CLM in Paris on 10-11 April) 3. 26 June (Kick-off in Qingdao) 4. 14 August 5. 13 October 6. 14 December
6. Monthly bilateral coordination calls (30 mins) between SWAM and each Partner	When needed (based on PUF etc)
7. Coordination with/Report back from PI Lot 5 Consortium Leaders Meetings (CLMs)	CLM 4 times a year: 1. 30-31 Januari Brussels 2. 10-11 April Paris 3. June, Qingdao in conjunction with JSC meeting 4. ????
8. Coordination with/Report back from CEWP	 June in Qingdao, Joint Steering Committee Meeting (JSC) December in Beijing, CEWP annual High-Level Conference (HLC)
9. Integration of activities and results from different WPs when relevant/possible to ensure "ONE PROJECT"	Continiously
10. Integration with Lot 5	Continiously
11. SHUI-ChE team kick-off with core Chinese partners	26 June (afternoon) in Qingdao in conjunction with JSC meeting
12. Inception Report (activities; workplan revised and coordinated with Chinese partners, and deliverables with timeline)	Done by 15 June (WP leaders should provide inputs before 5 June)
13. Engagement and coordination of Associate Partners	Continiously



WP 2 Green hydropower standards as tool towards sustainable existing and planned small hydropower LEAD: BMNT and BOKU Implementation: BMNT and BOKU	YEAR 1
Activity 2.1: Basic analysis demonstration project	2018
Activity 2.1.1: Contact/ involve Chinese partners (signing MoUs)	June 2018
Activity 2.1.2: Investigate pre-requisites of hydropower cascade	end 2018
Activity 2.1.3: Assessment of existing pressures	end 2018
Activity 2.1.4: Concept for green HP in case study river (Concept paper)	end 2018
Activity 2.2: Implement demonstration project (hydropower standards)	2018-2019
Activity 2.2.1: Comparison of green Hydropower standards (Concept paper)	end 2018
Activity 2.3: Field visits and Kick-off meeting (June/July 2018)	June/ July 2018
Remaining Activities (2.2.2, 2.4 and 2.5) to be elaborated/specified at a later stage	2019-2021



WD 2 Tanning hidden an array nataratials of hydron array ask array and	
WP 3 Tapping hidden energy potentials of hydropower schemes and optimization towards higher efficiency	
optimization towards nighter emerciney	YEAR 1
LEAD: BMNT	12/11/ 1
Implementation: BMNT and BOKU	
Activity 1: Basic analysis demonstration project	
Activity 1.1.1: Contact/ involve Chinese partners (signing MoUs)	June 2018
Activity 1.1.2: Investigate energy potential (hydrological, technical,	and 2010
operation, energy market, etc) of hydropower cascade via questionaire and literature research	end 2018
Activity 1.1.3: Analyse other benefits of the hydropower cascade	
(flood protection, irigation, tourism, etc) via questionaire and literature research	end 2018
Activity 1.1.4. Analyse requests, suggestions, complaints from the	
operators and consumers point of view via questionaire	
Activity 1.1.5. Analyse the interdependencies with WP2	end 2018
Activity 1.1.6. Draft a status quo report based on previous	end 2018
subactivities	5.1.325.25
Activity 1.1.7: Field visits back to back with Kick-off meeting (June/July 2018)	June/ July 2018
(Julic/July 2010)	Julie/ July 2016

WP 4 Hydropower as enabler for regional enrgy cooperation and renewable energy system transition	YEAR 1
LEAD: UNIFI Implementation: UNIFI and SWAM	
Activity 1: Wp4 Inception Phase	Months 1-6
Activity 2: Study on Renewable Energy Production Scenario in China	Done in dec
Activity 3: Best Available Technologies on Pumped Hydro Storage for China	Done in Dec
Activity 4: Cost and Benefit Analysis on Pumped Hydro Storage in China	Done in Oct
Activity 5: Case study on the Best Available Technologies on Pumped Hydro Storage for China	Done in Dec
Activity 6: Potential of energy storage integration/regulation for Renewable Energy Sources	Done in June



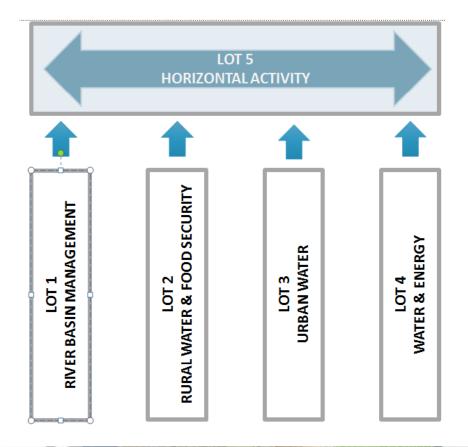
WP 5 Integrated water and energy planning	YEAR 1
LEAD: SEI Implementation: SEI and SWAM	
Scoping and engagement of core Chinese partrners, establishing collabration agreements	Inception Phase (Jan-Jun)
Scoping and validation of the key issues to be focused	Inception Phase (Jan-Jun)
One China mission, ideally to be combined with a field work in the Yalong River basin led by the Nanjing Hydraulic Research Institute (NHRI)	Inception Phase (Jan-Jun)
Activity 5.1: Articulating and assessing the opportunities of integrated water and energy planning	July 2018-June2019
Activity 5.1.1: desk study and information collection	Jun-Dec 2018
Activity 5.1.2: drafting synthesisi and critical issue report	Aug-Dec 2018
Activity 5.1.3: planning an exchnage workshop with core Chinese partners in the Spring of 2019	Aug-Dec 2018
Activity 5.2: Understanding the implications and lesson learnt through examining cases from both EU and China	July 2019 - Oct 2020
Activity 5.2.1: working with Chinese partner to develop and design case studies - preparatory work for Activity 5.2	Aug-Dec 2018
Activity 5.3: Policy options and business opportunities	Oct 2020 - June 2021
Activity 5.4: Sustainable hydropower development in the context of sustainable development – balancing the multiple goals (Led by SwAM)	Aug 2018- Dec 2020
Activity 5.4.1: refine the activity design (working closely with SwAM and the Swedish Agency for Energy)	Aug - Dec 2018

WP 6 EU-China sustainable hydropower innovation network (ECSHIN)	YEAR 1
LEAD: SWAM Implementation: SWAM and all partners	
Engaging core actors to be on board	Month 1-6
Network Kick-off event in Europé, at Nordic Clean Energy Week	22 May, 2018, Malmö
WP6 Network Kick-off session in China as part of the Lot 4 kick-off event	26 June (afternoon) in Qingdao
Network Annual Event covering all three pillars of the CEWP – research, governance, and business exchange.	TBC
Outreach by using existing outreach and social media platforms	Continuously
Coordination of the Network Consortium	Continuously









EU PI Structure 欧盟合作结构







		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
DEN	Lot 5: Horizontal Activities												
	WP 1: Strategic Coordination,	CLM (Brussels 30 31.1.), M1.1			CLM 910.4., European Coordination Meeting 10.4., Paris		CLM, 25.6. tbc, Inception Seminar 26.6., JSC 27.6., Qingdao			CLM, time and place tbc		High-Level Conference & CLM week 45, Beijing tbc	
DEN							Business&Innovation workshop 2728.6., Qingdao					Business&Innovation workshop week 48, SLUSH Helsinki tbc	
FIN	WP 3.1: Sustainable Development Goals												
SW E	WP 3.2: Source2Sea											"Source to Sea" workshop back-to-back with High Level Conference	
DEN	WP 3.3: Circular Economy and Economic Instruments												
POF	WP 3.4: Emerging issues												
FRA	Lot 1: Water Management and Ecological Security	Lot 1 : Mission PSF POR/ Wokshop on river restoration			Lot 1 : Mission FRA/ Pilot Project Haî River basin	Project Taihu Basin Authority Lot & : Mission FRA / IE Expo	Lot 1 Qingdao Event - End on inception phase and PI KOM Lot 1 : POR/ Pilot Project Nanxi River Basin			OR Lot 1 : POR/ Pilot Project Nanxi River Basin			
DEN	Lot 2: Rural Water and Food Security			Lot 2 Kick-Off Meeting 68.6., Beijing							Lot 2 Site Visit in Sh	andong tbc	
NE	Lot 3: Water and Urbanization			Lot 3 Meeting 25 31.1., Beijing and Changde							Beijing and Changde, end of the month tbc		
SW E	Lot 4: Water and Energy Security		Lot 4 Kick- off (EU partnerrs only) i Gothenburg		China at the end of April to	Lot 4 Work package 6 network kick-off at Nordic Clean Energy Week (21-25 May) TBC							









Business & Innovation Dialogue, 2018

- Info session at WSSTP, Water Market Europe, March 21st
- Info session at IFAT Munich, May 14th-18th
- Access Program, CWEC Qingdao, June
- Access Program, China, venue to be decided, 4Q, 2018
- Event at SLUSH Event, focus on Digitalization, 2nd half, 2018
- China Water Market Report, updated version, 2018









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Objective of WP2:

Water market functions and dynamics strengthened by bringing a broader variety of solutions and more solution providers to the market









Aims

- Facilitate dialogues on factors that impact the water sector
- Foster EU-China business and research cooperation
- Facilitate innovation projects by matchmaking between "challenge owners" and "solution providers"
- Promote and facilitate networking
- Promote exchange best practices on water policy, practices and financing
- Contribute to the alignment of EU and Chinese funding mechanisms
- Address market access barriers









WP2 Inception Phase

Task 2.1.1 – Inventory of water technology events in Europe and China

Task 2.1.2 – Organise Side Event at Tech Expos

Task 2.1.3 – Inventories

- Chinese Water Market opportunities
- Barriers for European Companies
- EU-China funding schemes

Task 2.1.4 – Mobilise companies, focus on SMEs and Start-Ups

- Use EU and National Water Fora
- Web-site and Communication System for outreach to the Business Community

Task 2.1.5 – Develop matchmaking methodology









Content of Tech Expo Events

Conferences, seminars or workshops, 2 each year, 1 in China and 1 in EU comprising:

- <u>Policy Dialogues</u> on challenges to the Business Community (Access Dialogue)
- <u>Innovation Dialogues</u> on game changing approaches or technologies, e.g.:
 - regulatory changes, water pricing, digitalization, resource efficiency (Access Dialogue)
- <u>Seminars</u> based on an "Open Innovation Approach"
 - Challenge Owners present challenges for potential Solution Providers for follow-up cooperation (Access to Market)
- <u>Site Visits</u> to potential sites for project co-operation (Access to Market)
- <u>Matchmaking</u> between:
 - Investors and potential Business Partners (Access to Market)
 - Partners with shared innovation interests (Access to Partners)









Improving framework conditions for businesses (WP 2.3)

Focus on financing and market access barriers:

- Inventory of EU-China funding opportunities
- Annual update of Inventory of Funding Opportunities for joint CN-EU projects
- Interviews and Roundtables with Key Stakeholders on progress reg <u>improving the</u>
 <u>opportunities for European Companies in China</u>, conducted in co-operation with EUCCC
 Environment Work Group. Summary of findings published in an Annual Progress Review at
 CEWP Website. and Dissemination of Recommendations a.o. through a presentation given to
 Annual Meeting.









Economic Instruments and Circular Economy

Economic Instruments

- <u>Compilation of existing analysis on Economic Instruments</u>, e.g. Water Pricing, Tariffs, and Examine the role and impact of Economic Instruments in facilitating efficient use of water resources.
- Socio-Economic Analysis of the entire Water Cycle, and identification of most cost-efficient actions.
- Main conclusions from these in the sideevents of the Access Programs

Circular Economy

 Workshops on Circular Economy and Economic Instruments and development of White Papers for each of the "Water Systems"







Schedule of Access Programs

The schedule of the PI Business and Innovation side-events could be:

- Session I: Conference on Game Changers
 - SDG demands for rural water supply and sanitation
 - Demands for safe and affordable rural water supply
 - New rural water and wastewater technology solutions
- Session II: Workshop on policy topics meeting the Business Community
 - Balancing water scarcity and food security
 - Balancing diffuse pollution and food security
- Session III: Open Challenge Workshop and Matchmaking
 - Crystal bowl on future water challenges
 - Matchmaking of Challenged and Solution Provider









Tentative Program Qingdao

	Monday 25.6.	Tuesday 26.6. "PI Day"	Wednesday 27.6. "High-Level Day"	Thursday 28.6. "Business Day"	Friday 29.6.	
Morning session	All day: Arrival of	CEWP PI Kick-Off	Qingdao Conference opening -	Qingdao International Water	Option: Site Visit	
	delegates	workshop; Plenary	attendance by all European JSC and	Conference & Expo		
		Session - Presentation	PI participants			
		of Inception Phase		Parallel CEWP PI Workshop		
		Reports by all Lots				
Afternoon session		CEWP PI Kick-Off	CEWP Joint Steering Committee	Qingdao International Water	·	
		workshop; Parallel		Conference & Expo		
		Sessions - Detailed				
		discussions about	Parallel CEWP Pt Business	Parallel CEWP Pl Open	All	
		execution Phase of the	Conference	Challenge Matchmaking	JSC level	
		project			PI Operator (EU&	CHN)
					PI B&I (Lot5/WP2	
Evening	7	CEWP PI Kick-Off	JSC Dinner		Lot2)	
		Reception			Companies	









Tenders reg WP2 # 1

Support to side events focusing on specific Water Challenges, Policy Dialogues and Innovation Dialogues (Access to Dialogue)

Support to Seminars based on "Open Innovation Approach" where CN Challenge Owners put forward their selected challenges for discussion with the Solution Providers (Access to Market)

Study Tours to see the challenges at concrete sites for project co-operation (Access to Market)

Support to Matchmaking with CN Investors and potential Business Partners for setting up JVs) (Access to Market)

<u>Screening of selected Water Market Segments</u> with respect to upcoming regulatory changes, increased focus on resource-use efficiency (circular economy) and digitalization

<u>Background Market Information</u> reg the Segments related to the specific event, assessment of the segments, current situation and upcoming game changers (Access to Information)









Tenders reg WP2 # 2

Organization of events to foster business opportunities in China and Europe, with a special focus on <u>digitalization</u> of the Water Market Segments, current situation and upcoming game changers (Access to Information)

Special Seminars focusing on Digitalization in the Water Tech Sector

Background Information reg the Water Tech Market related to the specific theme

Screening of selected Water Market Segments with respect to digitalization









Tenders reg WP2 # 3

Implementation of Seminars based on "Open Innovation Approach" where CN Challenge Owners put forward their selected challenges for discussion among the Solution Providers and adjoined matchmaking between the Challenge Owners and the European Companies (Access to Market) Study Tours to see the challenges at concrete sites (potential sites for project co-operation) (Access to Market)

Implementation of Matchmaking with Investors and potential Business Partners for setting up JVs) (Access to Market)

Organization of matchmaking events to foster European-Chinese Business co-operation:

- i) Two events a year during 4 years
- ii) Involvement of both European and chinese business related to water tech
- iii) Events to take place in China and Europe at CEWP selected water tech events.







Tenders reg WP2 # 4

Inventory of the barriers for European Companies, how they are addressed

Annual updating of an <u>Overview Document outlining funding opportunities</u> for joint CN-EU projects reg business promotion, innovation, demonstration and policy exchanges.

Desk Study examining the potential for aligning of EU Horizon 2020 and CN –MOST Support Programs, Roundtable on development of recommendations for such an alignment.

Interviews and Roundtables with Key Stakeholders on progress reg improving the opportunities for European Companies in China, in co-operation with EUCCC Environment Work Group.

Collection of data on successful case studies on joint initiatives and respective funding mechanisms; Elaboration of a study, in coordination with Chinese partners, including the identification of key stakeholders, business opportunities, capacity building priorities and potential funding schemes









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