



Horizon2020 Info Day on Public-Private Partnerships

*Brokerage event
16 October 2015*

***SEA-MINING: A CLOSED-LOOP TECHNOLOGY FOR FULL RECOVERY OF
WATER AND RAW MATERIALS FROM SALTY WASTEWATER***

Dimitris XEVGENOS

Outline

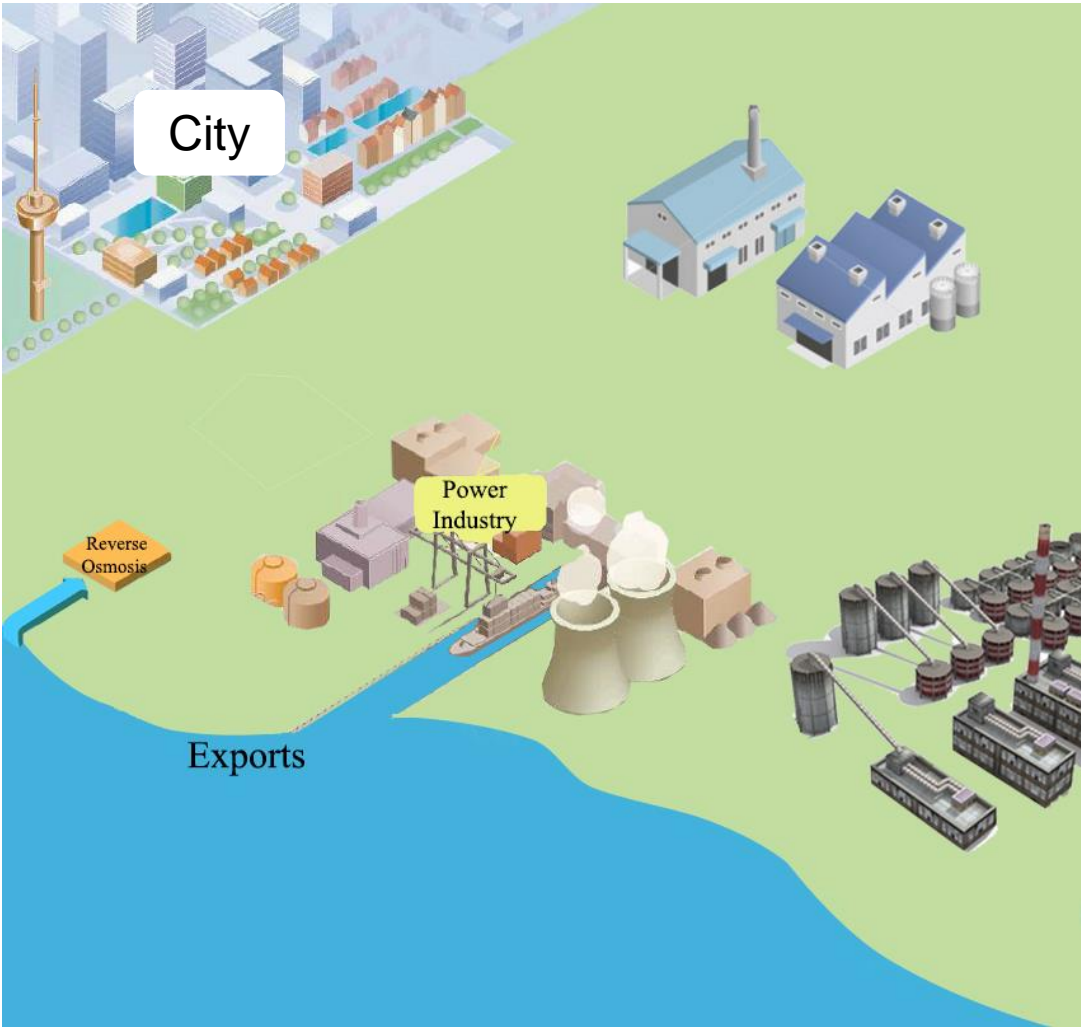
1. *Project Idea*
2. *Information about CIRC-01-2016 call*
3. *GReen Desalination profile*
4. *Project Consortium*
5. *Looking for partners*
6. *Expected Impact*

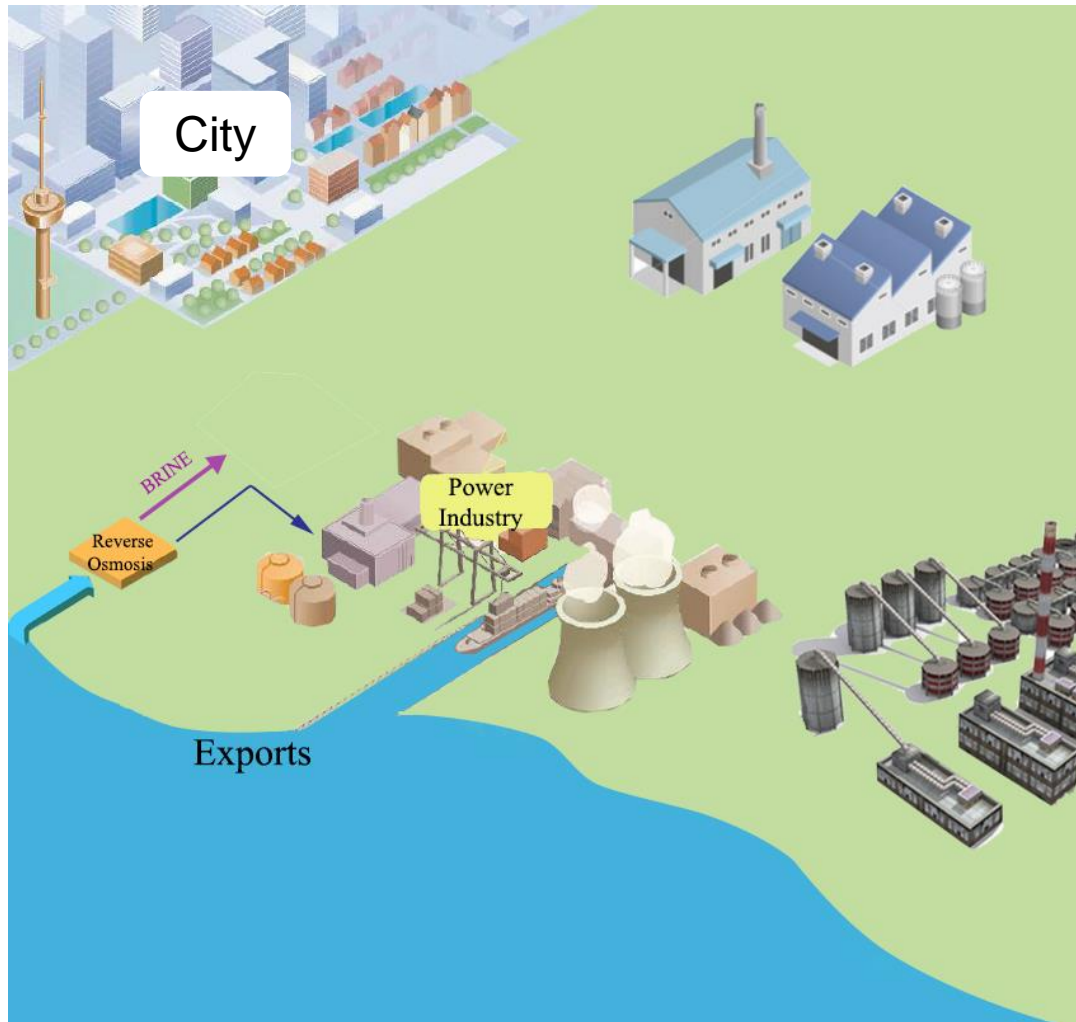
1. PROJECT IDEA

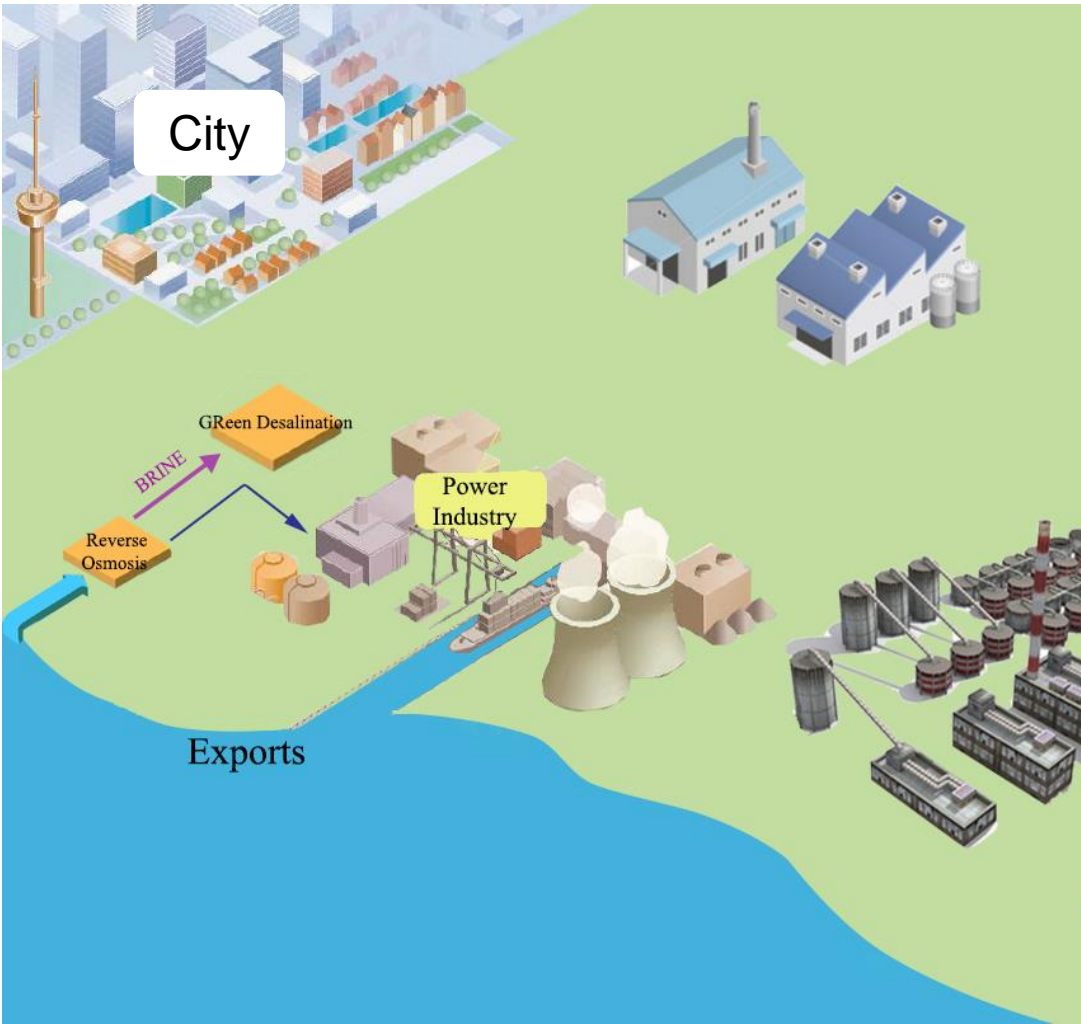
- ❖ *Transformation of salty wastewater into a resource*
- ❖ *Key challenges to be addressed:*
 - ✓ *Social*
 - ✓ *Environmental*
 - ✓ *Economical*
 - ✓ *Technical*

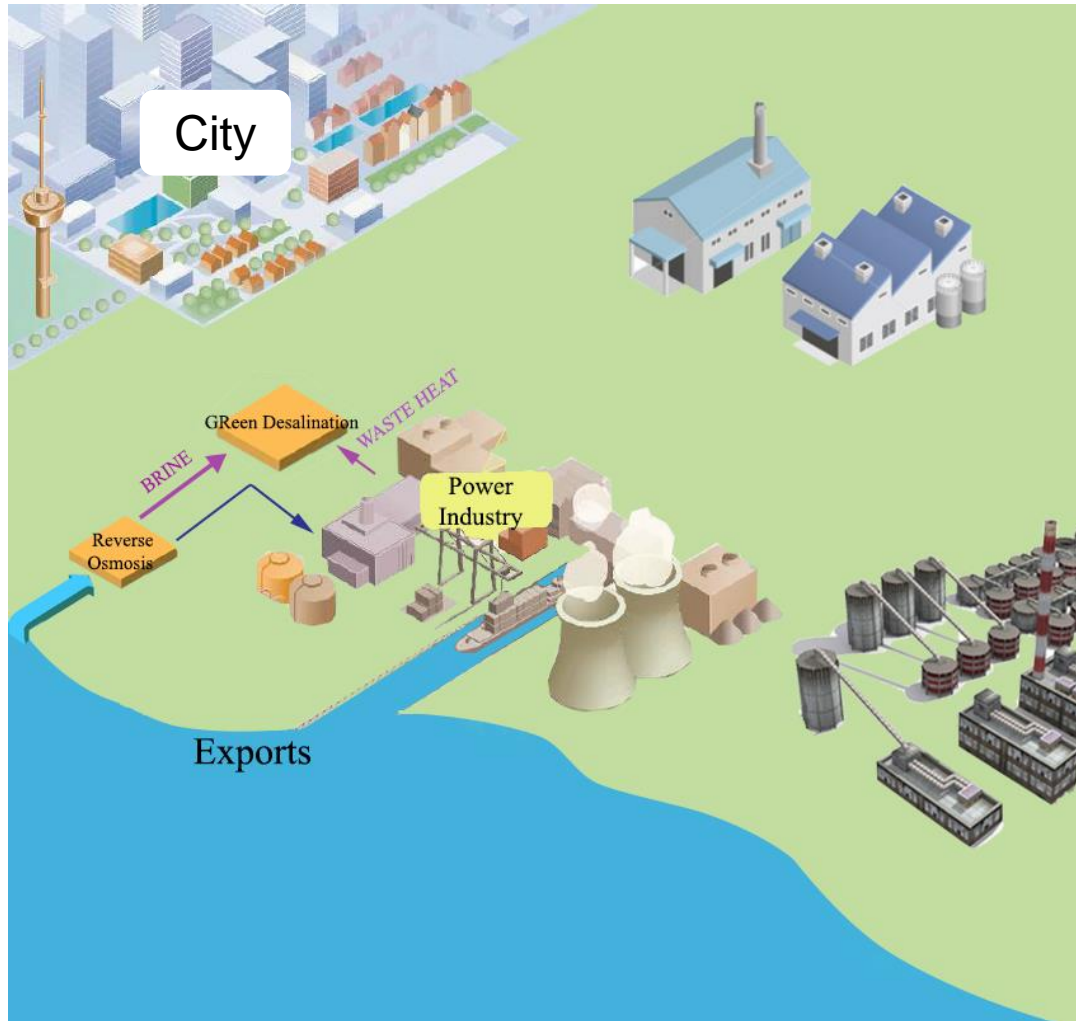
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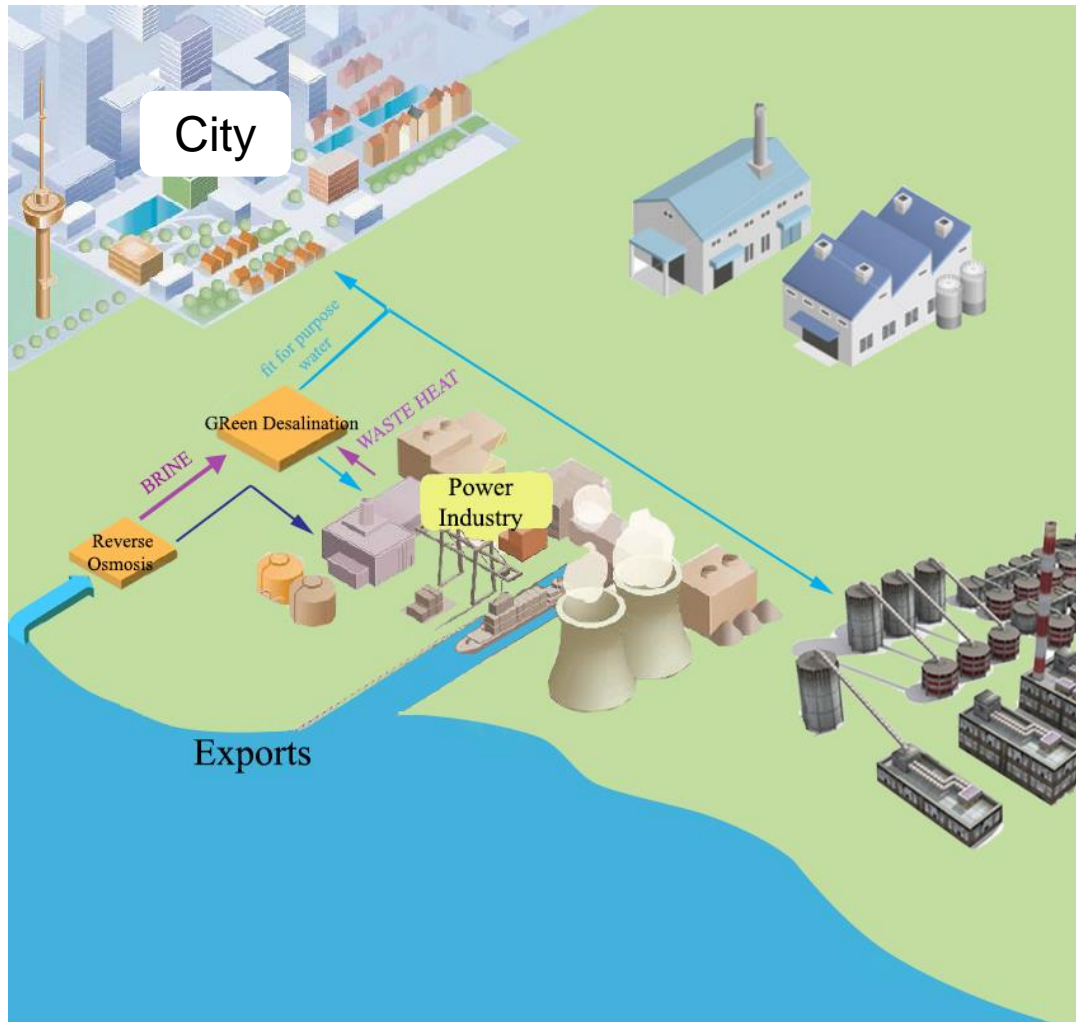
- ❖ *The economic value of this wastewater is estimated at 7€ per m³ (incl. water and minerals)*
- ❖ *Focus on water intensive industries, namely refineries and power industries*
- ❖ *Engage end-users for the recovered products including chemical industry, paper industry etc.*

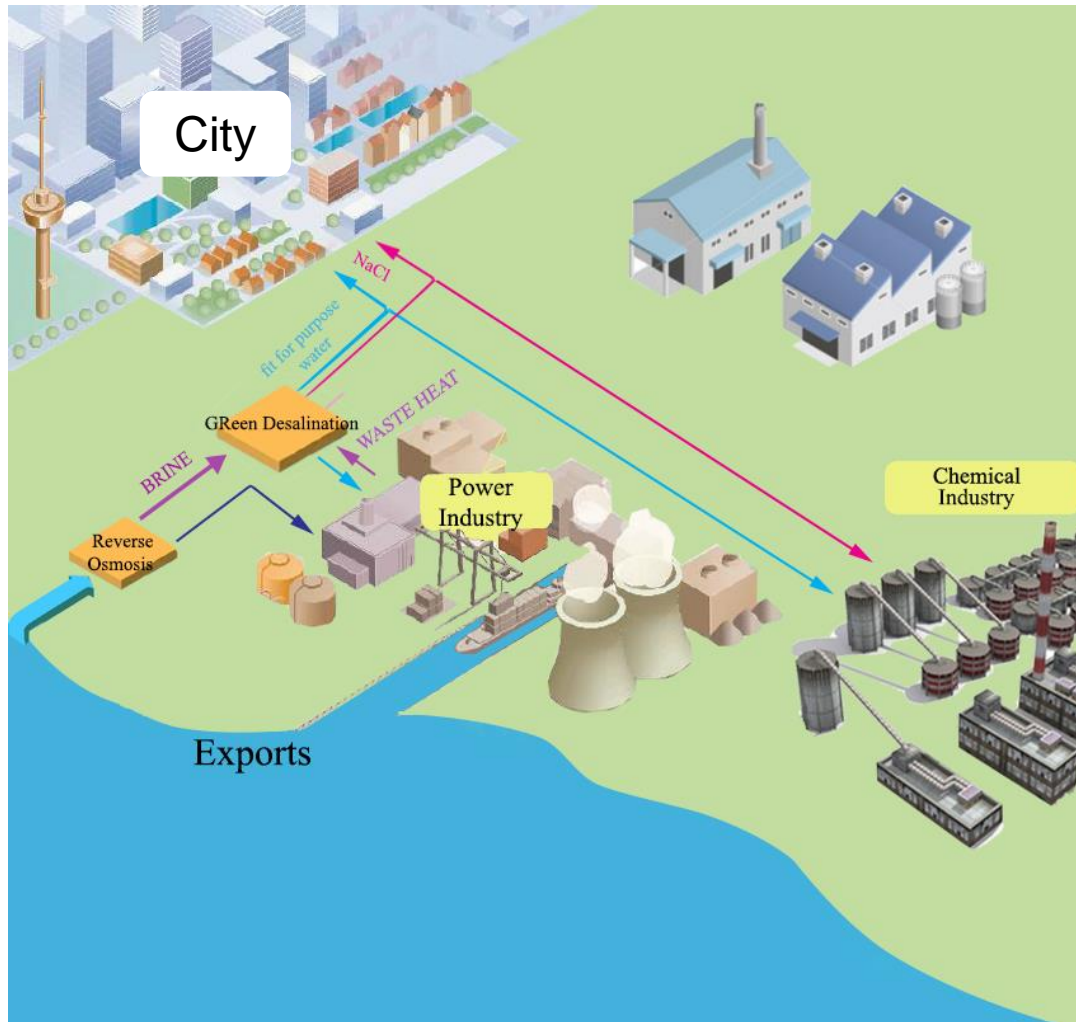


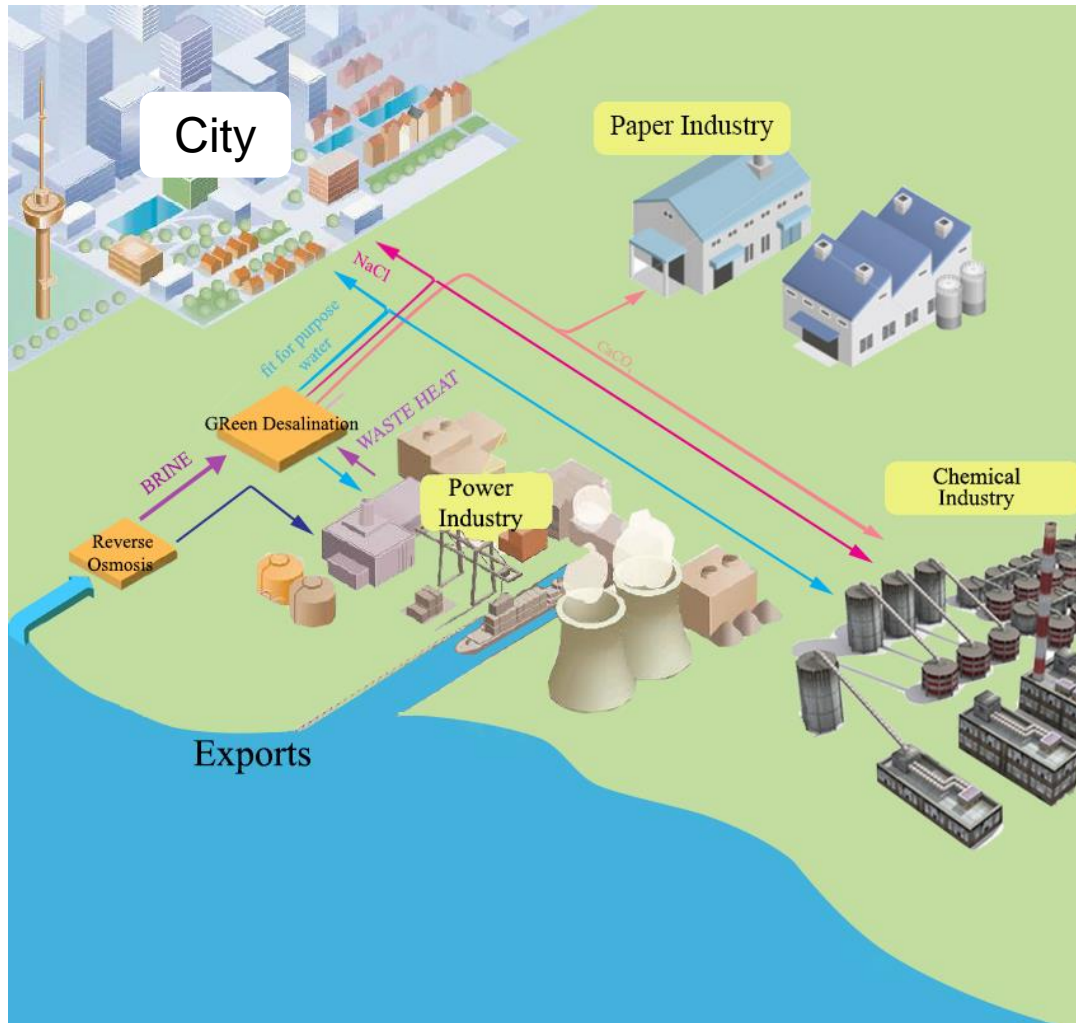


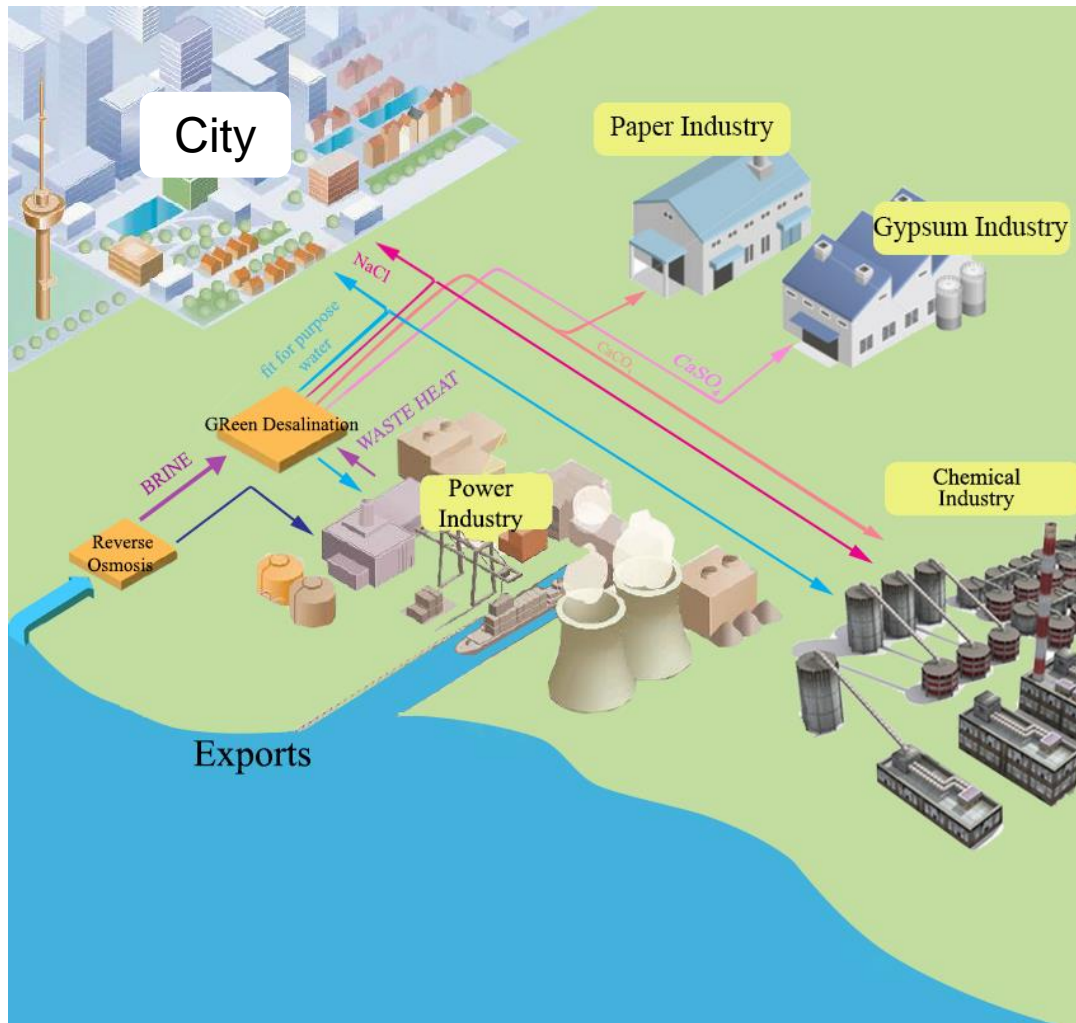


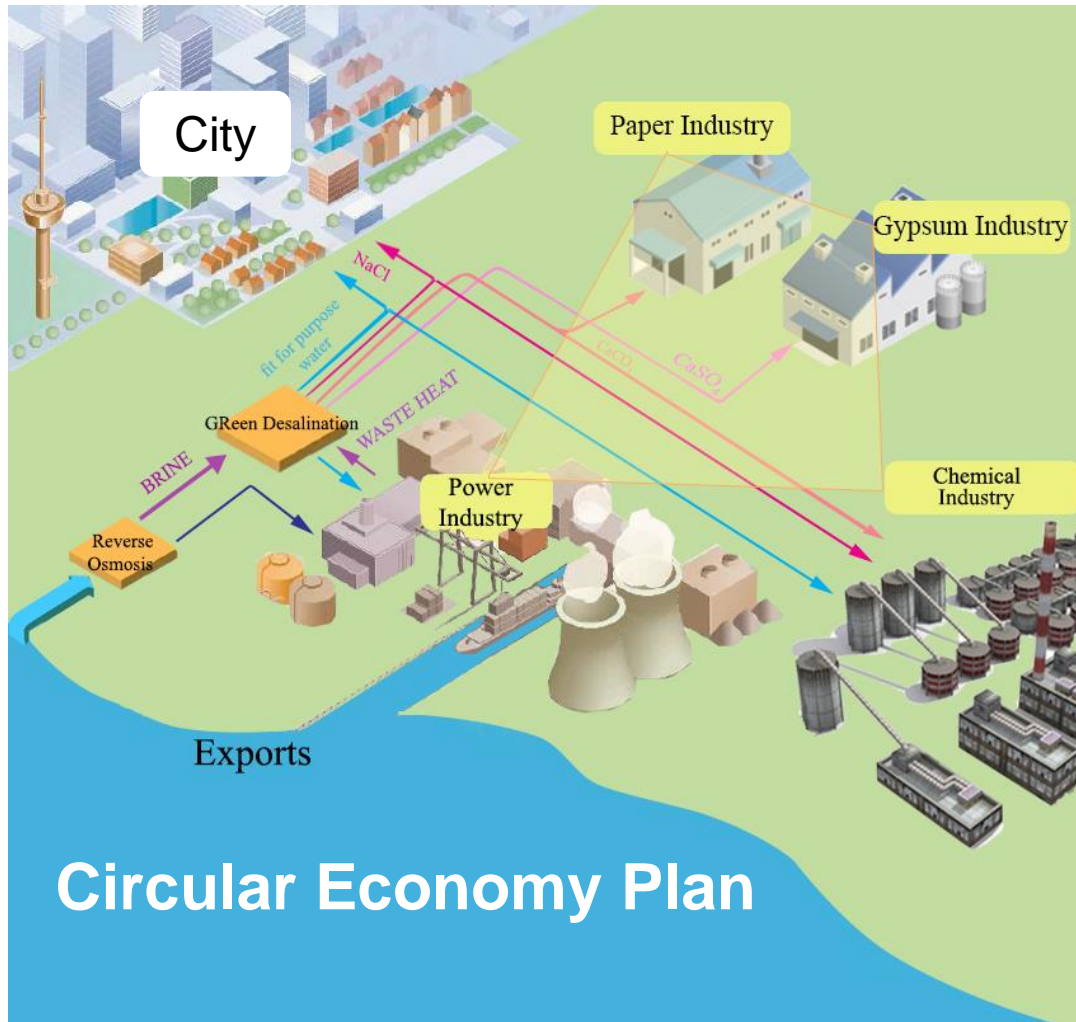












2. CIRC-01-2016 topic

❖ *2-stage call*

❖ *Deadlines:*

✓ *1st stage: 08/03/2016*

✓ *2nd Stage: 06/09/2016*

❖ *Budget: EUR 10 million*

❖ *Type of action: IA (Funding Rate: 70%)*

❖ *TRL: 5-7*

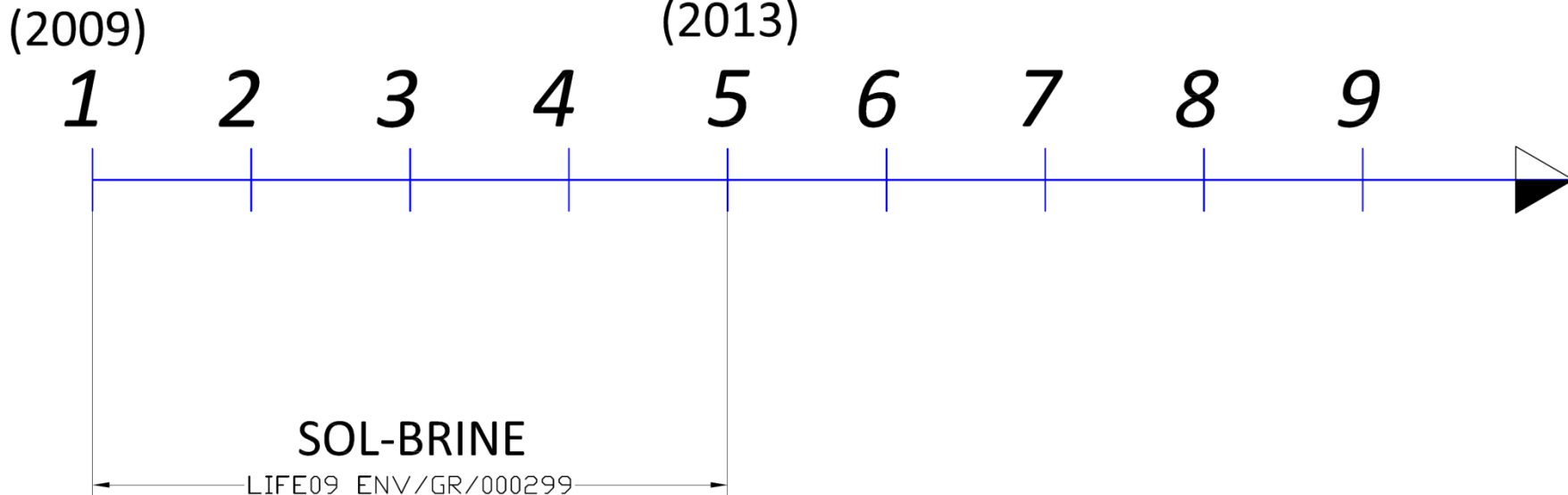
3. GReen Desalination



Technology Readiness Level

Idea

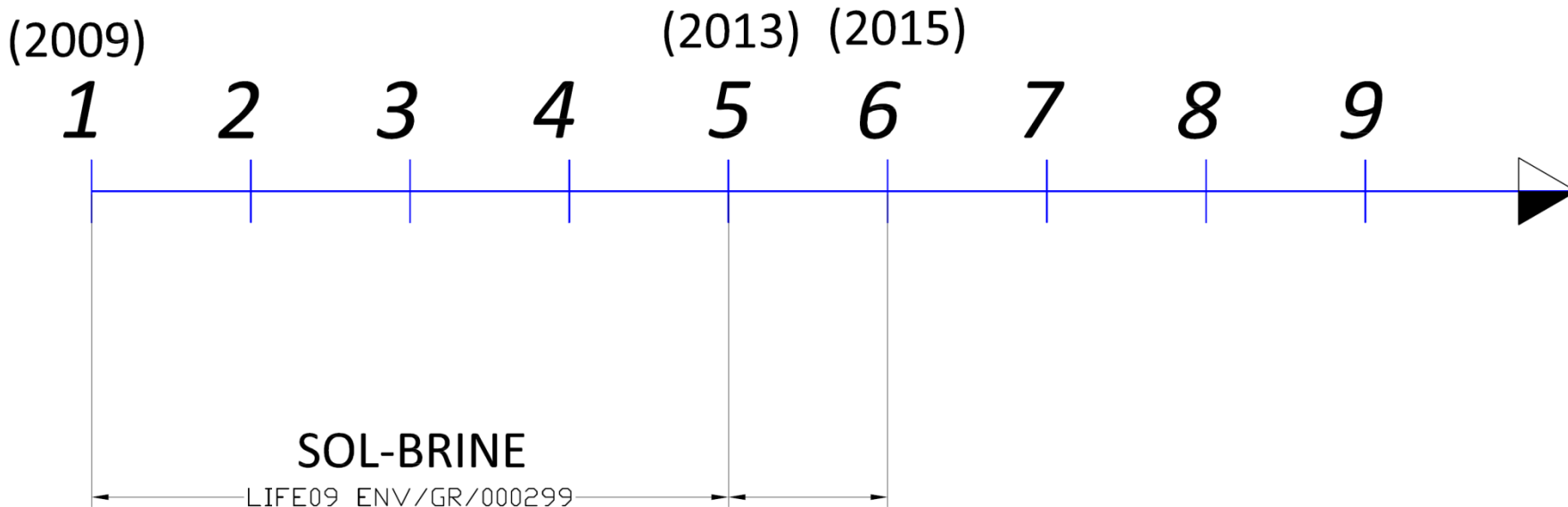
Market



Technology Readiness Level

Idea

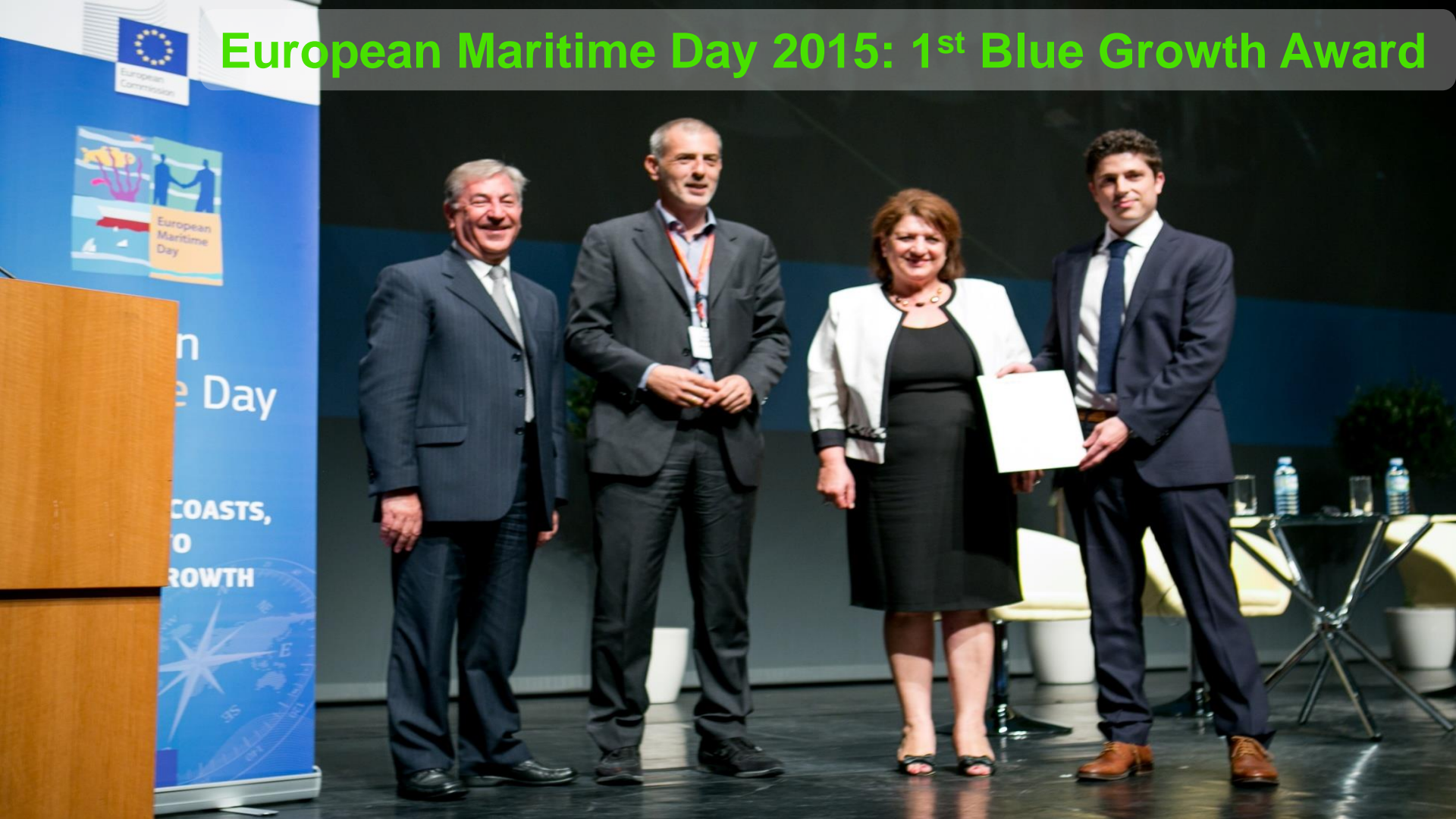
Market





Pilot brine treatment system, Tinos Island, Greece

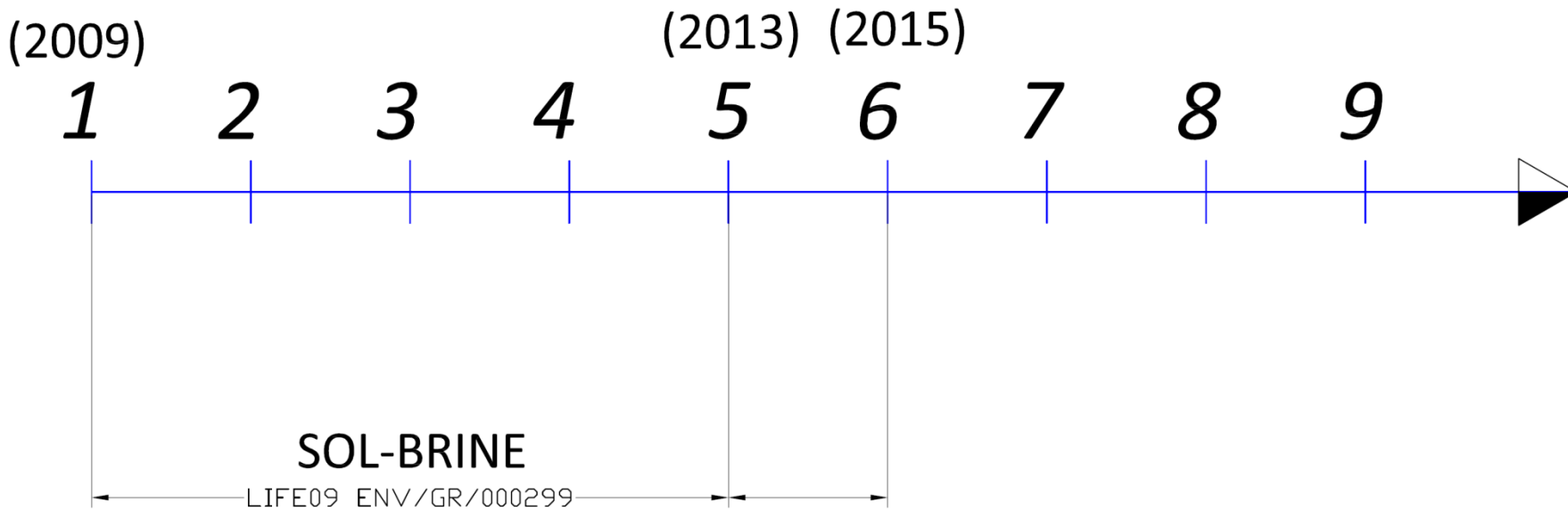
European Maritime Day 2015: 1st Blue Growth Award



Technology Readiness Level

Idea

Market

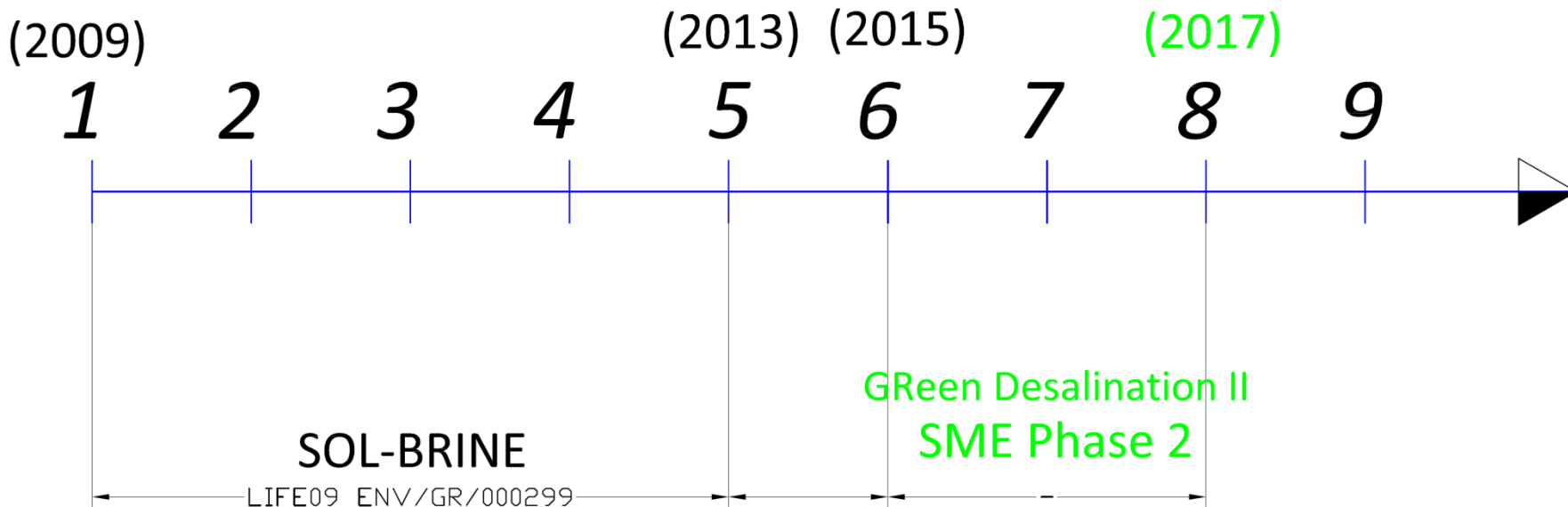


GGreen Desalination
Horizon 2020-Grant No. 674455

Technology Readiness Level

Idea

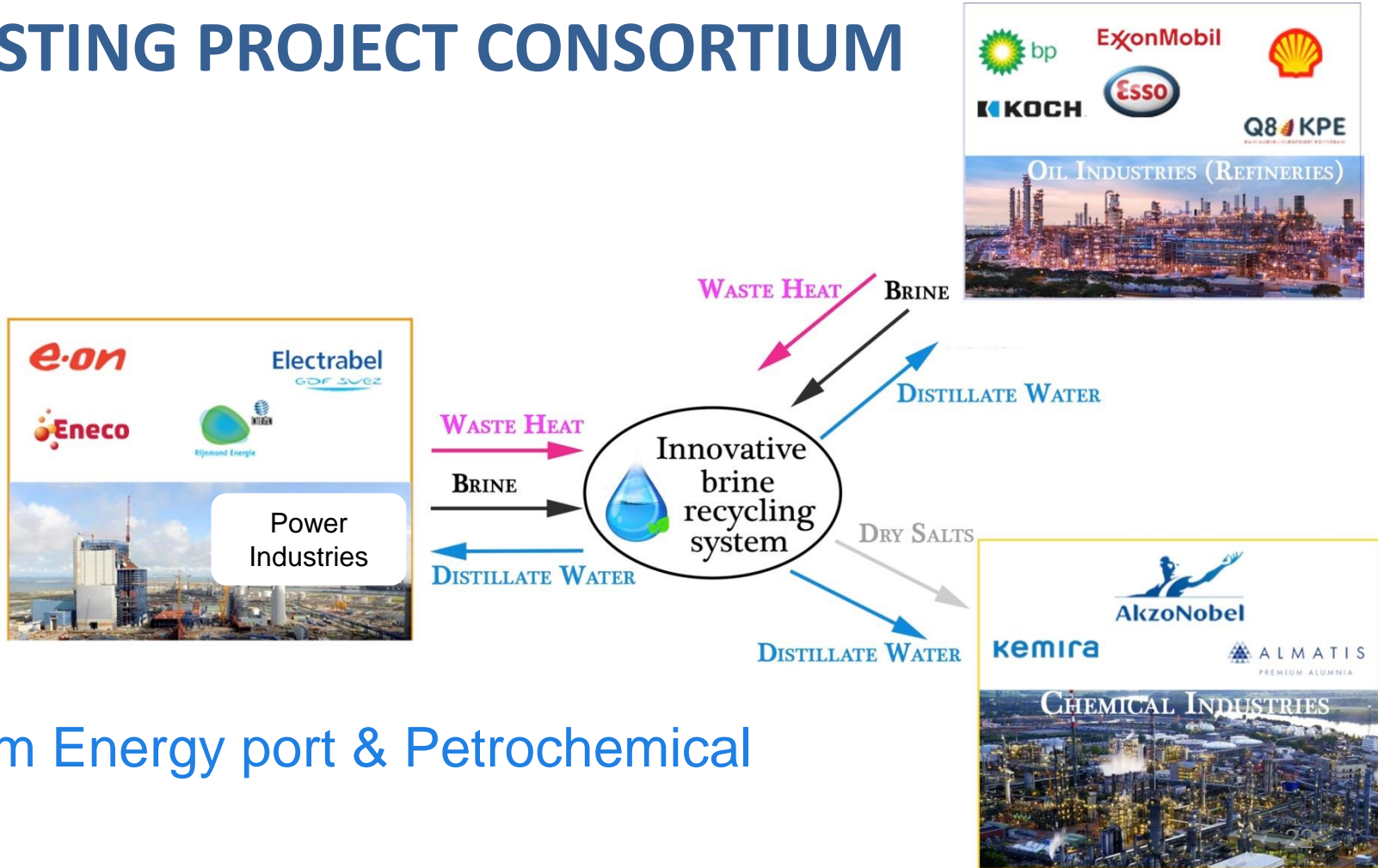
Market



GReen Desalination

Horizon 2020-Grant No. 674455

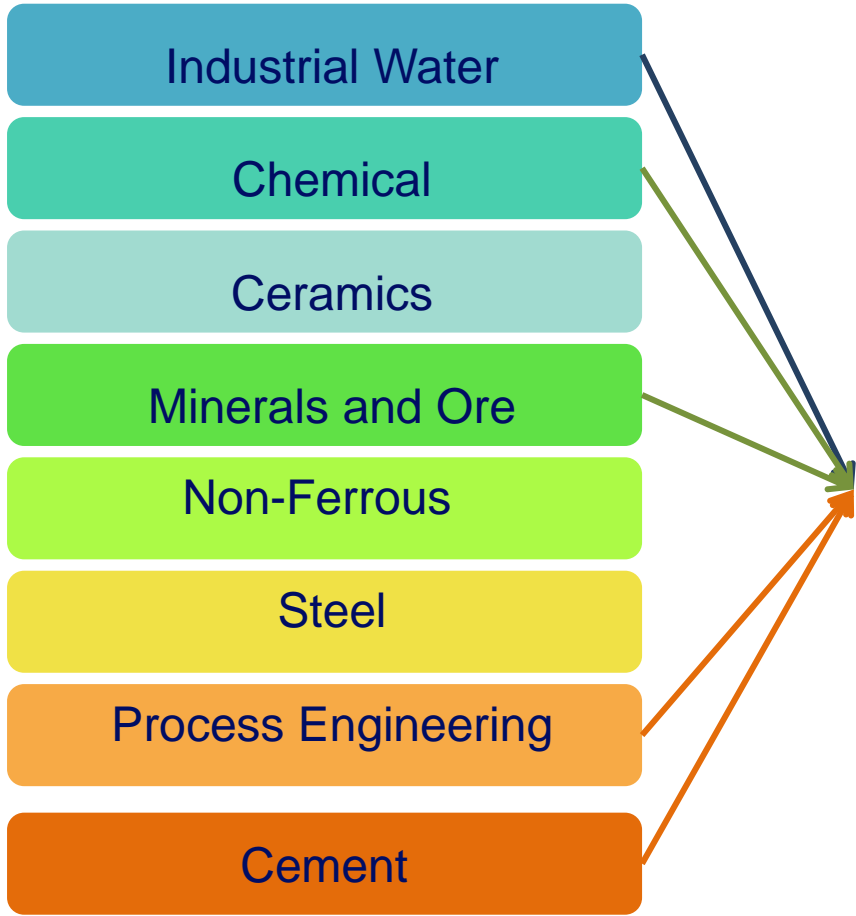
4. EXISTING PROJECT CONSORTIUM



Rotterdam Energy port & Petrochemical Cluster

5. LOOKING FOR PARTNERS

- ❖ *Industries: Power sector, Water utilities, Chemical Process Industries*
- ❖ *Industrial Technology Provider*
- ❖ *Communication Platforms (WssTP, SPIRE etc)*



SPIRE sectors

6. EXPECTED IMPACT

- ❖ *Cross-sectorial symbiosis involving refineries, power sector and chemical industries*
- ❖ *Transfer and take up of this solution*
- ❖ *Shift towards a new paradigm for mining minerals from the sea*
- ❖ *Shift to: next generation desalination.green*

CONTACT DETAILS

SEALEAU

next generation desalination.
green.

Dimitris XEVENOS
CEO, SEALEAU
Scientific Coordinator, Grant No. 674455

HIGH TECH XL CAMPUS
High Tech Campus 1
5656, Eindhoven
The Netherlands
+31 0638451579
d.xevgenos@gmail.com