

Partners for International Business (PIB) WATER ROADMAP 2018-2021



Urban Water Logistics Yangon (UWLY)

PIB CONSORTIUM 2018-2021



Bosch
Slabbers



RESILIENCE



Van Oord
Marine ingenuity

Witteveen + Bos



TU Delft
Delft University of Technology



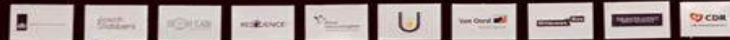
waternet



Urban Water Logistics Yangon (UWL)
Launch of
Urban Water Logistics Yangon
Partners for International Business Consortium 2018-2021
Collaborating for a Bright Water and
Maritime Future of the Yangon Delta



MYANMAR-NETHERLANDS WATER CHALLENGE 2018 GRAND FINAL



Myanmar

Visit Chief Minister Yangon Region to the Netherlands

Water Hub



5 **Futureland Information Centre**
 Future of the Port of Rotterdam (key developments)
 Discussion between Yangon delegation and NL partners;
 consolidate findings, collaboration going forward, next steps



1 **Port of Rotterdam**
World Port Center
 Headquarters of the Port of Rotterdam Authority
 Welcome, introduction to the program & partners
 Setting the stage: expectations and priorities
 Introduction on Port of Rotterdam



3 **RDM Rotterdam**
 Visit to RDM Rotterdam, the Port of Rotterdam
 innovation hotspot



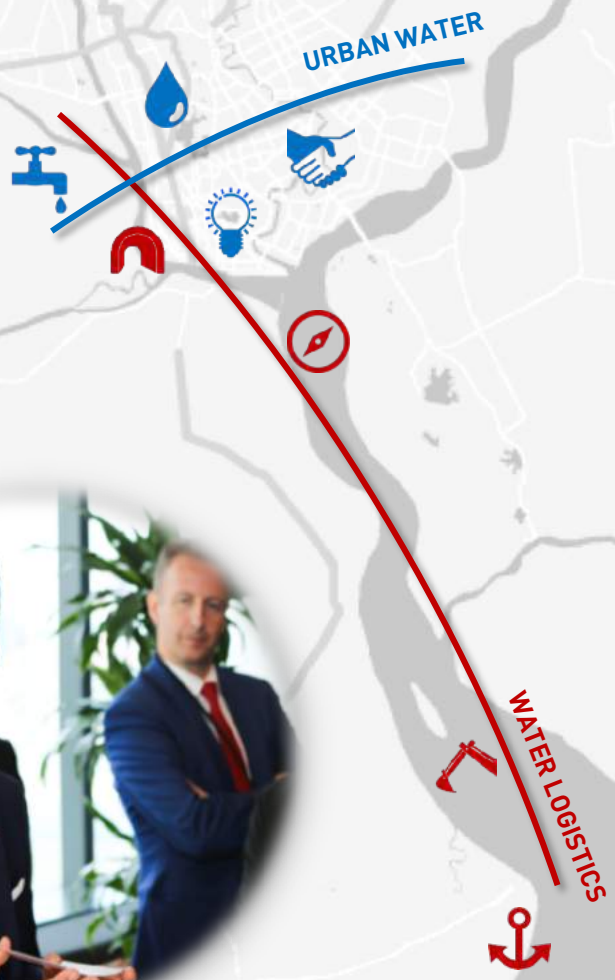
2 **Boat Tour Port of Rotterdam**
 Showing various city-port developments
 Lunch on-board







4 **Maasvlakte 2 - Visit Container Terminal**
 Introduction Maasvlakte 2
 Showcase terminal automation







**YANGON REGION WATER PRIORITIES
CALL FOR ACTION TO THE NETHERLANDS
BY THE YANGON CHIEF MINISTER**



URBAN WATER

-  WATER SUPPLY
-  WATER RESOURCES ADVISORY
-  YANGON WATER HUB PLAN
-  WATER GOVERNANCE

WATER LOGISTICS

-  YANGON SEA PORT
-  RIVER NAVIGATION
-  RIVER DREDGING ADVISORY
-  RIVER TUNNELING ADVISORY

YANGON REGION WATER PRIORITIES CALL FOR ACTION TO THE NETHERLANDS BY THE YANGON CHIEF MINISTER



URBAN WATER



WATER SUPPLY

“Meeting the water requirements of the urban population, the public sector, and of trade and industry.”

Challenge. Yangon can't deliver good (safe) quality drinking water and water utility. Old infrastructure and lack of coverage for complete city. Yangon is too much dependent on ground water extraction.

Need. Expertise on water treatment, and urban planning of surface water (reservoirs) to become more resilient.



WATER RESOURCES ADVISORY

Challenge. Developing, securing and allocating fresh water sources to meet the needs of Yangon in the coming 20 years. Yangon is dealing with too much, too little and dirty water.

Need. Expertise on governance, planning to manage (maintain) important water resources around (new) industrial zones.



YANGON WATER HUB

Challenge. Developing models for Public-Private collaboration that promote innovation, knowledge sharing, public engagement, capacity building and education.

Need. Expertise and experience to make a plan to set up and operate a water innovation hub.



WATER GOVERNANCE

Challenge. No cooperation between the different institutional levels and donors active in Yangon. Decision making is [scattered] silo-ed.

Need. Expertise on water governance to strengthen the Yangon City Water management Committee re distribution, legislation, financing,

WATER LOGISTICS



YANGON SEA PORT

“Providing infrastructure to meeting the requirements of sustainable and economic waterborne transport of people and goods.”

Challenge. Limited accessibility of Yangon port due to limited flood tide and insufficient water depths. Fragmented operator market, small individual terminals, lack of synergy. Limited terminal handling.

Need. Expertise around the business case of port management.



RIVER NAVIGATION

Challenge. Limited navigable rivers and limited water depths (sediment and morphology). High transportation costs in Myanmar. Poor hinterland connections to Industrial Zones (IZs) and Mandalay region.

Need. Development of an integrated navigation masterplan (connectivity)..



RIVER DREDGING ADVISORY

Challenge. As Yangon river is an hydrodynamic river, the lack of proper dredging methodology may cause erosion, leading to loss of agriculture and village land. Sedimentation is a continuous problem and requires regular maintenance dredging.

Need. Technical expertise to monitor the river dredging work in the Yangon River.



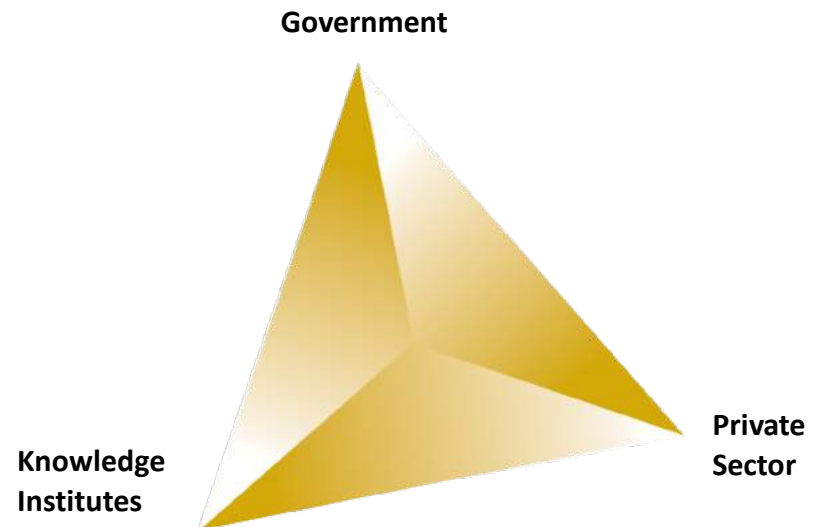
RIVER TUNNELING ADVISORY

Challenge. Rebuilding Yangon means connecting different locations now separated by a river.

Need. Expertise on river tunnelling to prevent disturbing big merchant ships entering Yangon port. Provide expertise about tunneling approach for the future potential developments [river cross connection for new town development].

Partners for International Business

- Dutch government investment program
- 3 Year Program
- “Golden Triangle”
- Knowledge Exchange, Matchmaking and Networking
- Modules: G2G, K2K, Economic Diplomacy, Branding, Events, Local Liaison



PIB Myanmar



- Two main themes: Urban Water and Water Logistics
- 8 Priority Themes
 - URBAN WATER: Water Supply, Water Resources, Yangon Water Hub, Water Governance
 - WATER LOGISTICS: Yangon Sea Port, River Navigation, Dredging, River Tunneling
- Partners & Knowledge Partners
- Covering water cycle: from research and design to engineering and construction
- Multinationals and SME's
- Experienced professionals and “next generation”



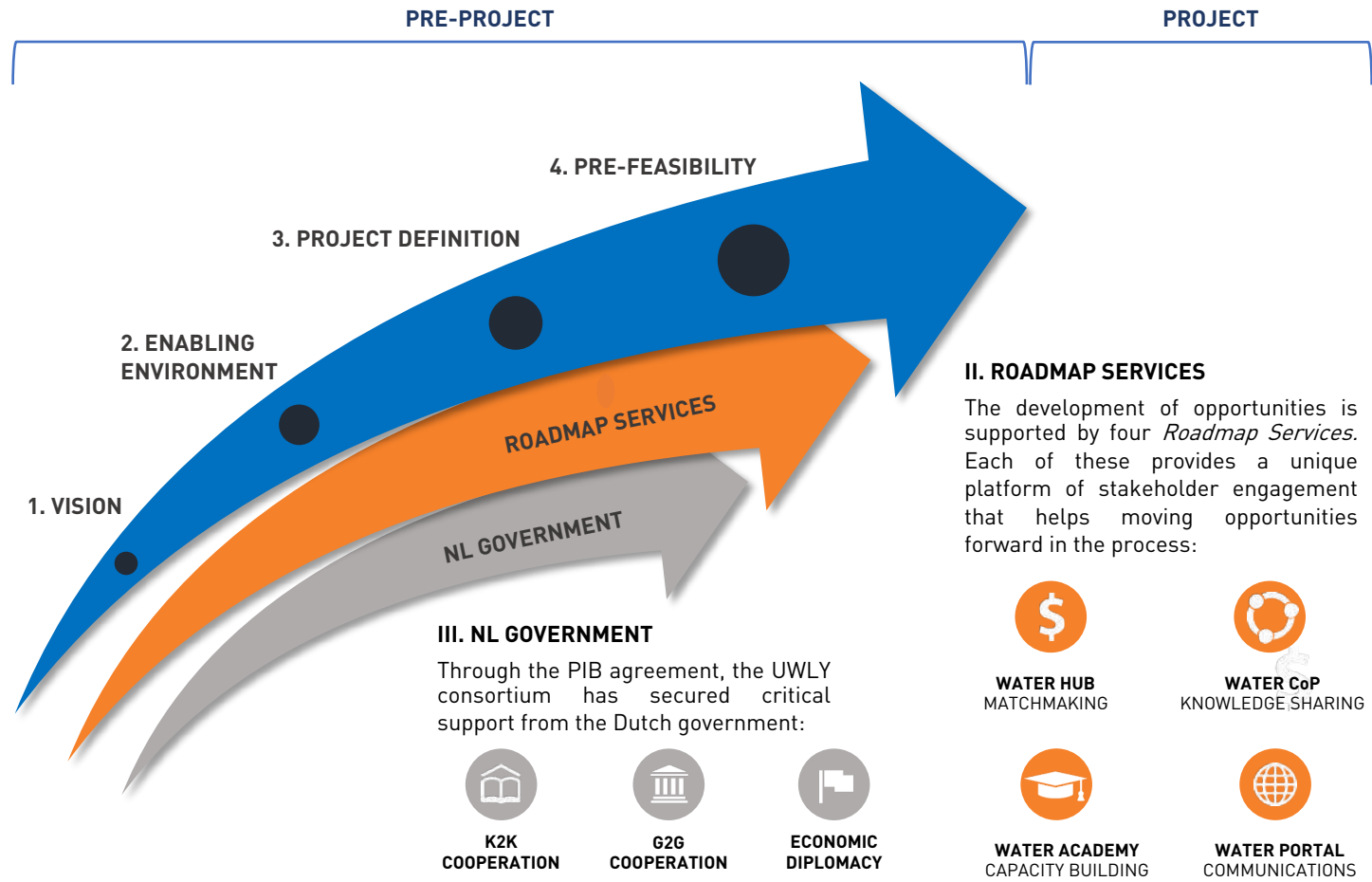
I. ROADMAP METHODOLOGY

Within the 3 year PIB period, the UWLY consortium aims to develop each of the urban water and water logistics challenges into business opportunities.

Typically, each opportunity has to be developed through several pre-project stages to become an actual project:

- 1. VISION.** Developing a shared vision on challenges, opportunities and pathways towards a resilient, prosperous and liveable Yangon Region.
- 2. ENABLING ENVIRONMENT.** Establish a context that supports the desired solutions: legislation, policy, capacity, etc.
- 3. PROJECT DEFINITION.** Early stage concept design, definition of needs and desired outputs, project partners.
- 4. PRE-FEASIBILITY.** High-level technical, environmental and economic analysis. Examination of alternatives. Priorities vs other projects.

The planning of these stages will vary for each opportunity - depending on local complexities, availability of data, political readiness, financing, etc.



II. ROADMAP SERVICES

The development of opportunities is supported by four *Roadmap Services*. Each of these provides a unique platform of stakeholder engagement that helps moving opportunities forward in the process:



WATER HUB MATCHMAKING



WATER CoP KNOWLEDGE SHARING



WATER ACADEMY CAPACITY BUILDING



WATER PORTAL COMMUNICATIONS

III. NL GOVERNMENT

Through the PIB agreement, the UWLY consortium has secured critical support from the Dutch government:



K2K COOPERATION



G2G COOPERATION



ECONOMIC DIPLOMACY