

INDONESIA WATER CHALLENGE 2019

CAMPUS TOUR

ECO

SMART

PORTS

19-21 March, 2019



Kingdom of the Netherlands



WATER ACADEMY

Introduction

Indonesia Water Challenge is a competition that invites the next generation of water leaders to take an active role in developing innovative and sustainable solutions to real-life water problems in Indonesia.

Participants are supported by local and international experts from private sector, academia, and government who act as their mentors and advisers.

Two editions of the Water Challenge have been organized in 2013-2014 and 2016-2017. The 3rd edition will be launched in 2019



"Thanks to the international partners and all teams for their dedication and hard work, I strongly encourage all of us to help Indonesia develop a bright water future."

Ir. Moch. Basuki Hadimoeljono, M.Sc, Ph.D
Minister of Public Works and Housing of Indonesia



"This is important for younger generation, keep doing the good work."

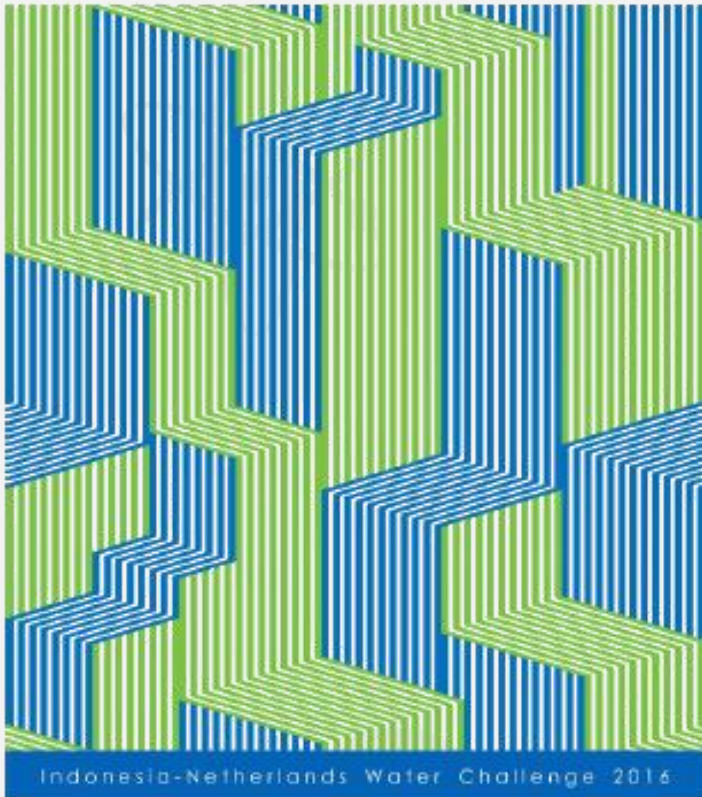
Mark Rutte
Prime Minister of the Netherlands



Past edition

2016-2017

BLUE GREEN CITIES



JAMES S. DAVIDSON
ARCHITECT



Location: Semarang



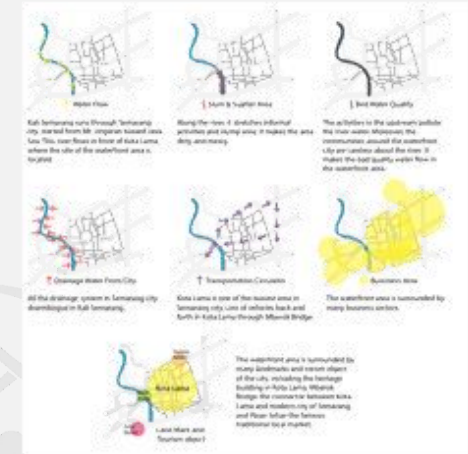
Case study



Three locations with a different set of problems



Results



2019: Eco-Smart Ports

The concept of eco-smart port is a concept that respects the environment and inclusive with its surrounding communities in the *planning* phase. Uses green technology and complying with environmental regulations in the *construction* phase. Utilize renewable energy, balance the automation, and limit the amount of dumped waste in the *operational* phase. It also needs to put an extensive effort to maximize health & safety aspects in all phases and increase infrastructure productivity.

Planning



Economic impact



Infrastructure design



Logistics & distribution network planning



Environmental assessment



Modelling

Construction



Dredging & reclamation



Placement



Casting



Project management

Operations



Energy utilization



Vessel activities



Digital connectivity



Infrastructure productivity



Case Study

Terminal Teluk Lamong, Surabaya



Main building



Conveyor belt



Surrounding coastal area



Container yard



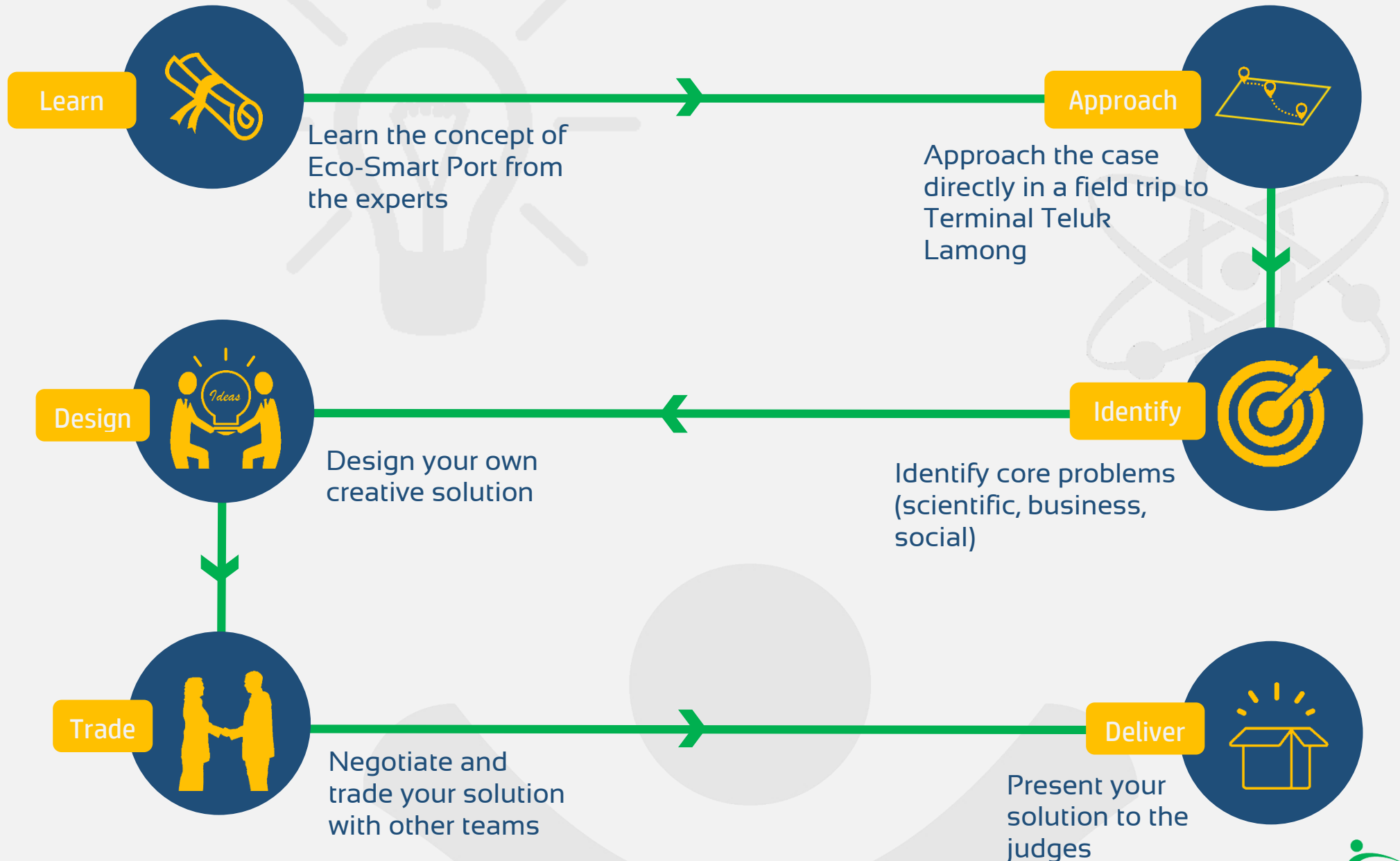
Wharf



Terminal Teluk Lamong could be developed further. As future water and maritime leaders, what are you going to do to develop and improve the terminal?



Action plan



The Experts



Van Oord, one of the biggest dredging and reclamation companies in the world



Deltares, an international research institute



Waskita Karya, a national construction company



Port of Rotterdam, the most advanced port developer in the world



Ministry of Coordinating Maritime Affairs



Pelindo III, the national port operator



Terminal Teluk Lamong, the first green port in Indonesia



Application

Requirements:

We are looking for exceptional students with the following attributes:

- Less than 30 years old
- Have a clear passion to solve water-related problems (climate change, sea-level rise, wave & tidal flood, land subsidence)
- Possess outstanding leadership skills
- Team player and creative problem-solver
- Fluent in English (verbal & writings)

Registration process

1. Fill out your personal data at <https://goo.gl/forms/tfQG4FapjxERQ4512>



QR code for registration link

2. Send us a short video (max 1 minute) demonstrating your passion for water, and why we have to select you in our program. Send it to IWC@thewateragency.com before **March 8th, 2019**.



Thank you, Institut Teknologi Bandung!



<https://www.hollandwaterchallenge.com/indonesia.html>



indonesiawaterchallenge



Indonesia Water Challenge