



Expert Stakeholders Consultation Meeting

Initiative of Establishing

Regional Platform for Excellence in Wastewater Management

organized by

*The Deanship of Scientific Research at Al-Balqa Applied University - Jordan
in collaboration with IHE Delft - The Netherlands*

March 29, 2018

Al-Balqa Applied University, Main Campus, Al-Salt – Jordan

Purpose of the Expert Stakeholders Meeting

To assess the needs for a “Regional Platform for Excellence in Wastewater Management”



To explore and evaluate possible ways to achieve and sustain such a platform



IHE
DELFT

Global Partnership
for Water and
Development

Initiative of Establishing
Regional Platform for Excellence in Wastewater Management
Existing Situation and the Way Forward

by
Dr. Naser Almanaseer
Head of Civil Engineering Department
Manager of SMART-Move Project
at Al-Balqa Applied University

March 29, 2018
Al-Balqa Applied University, Main Campus, Al-Salt – Jordan

Acknowledgement

SMART (Sustainable Management of Available Water Resources with Innovative Technologies)

A project on Integrated Water Resources Management



SPONSORED BY THE
Federal Ministry
of Education
and Research

HELMHOLTZ
ZENTRUM FÜR
UMWELTFORSCHUNG
UFZ



Serving the community



Wetland System for a farmer near Al-Salt



SBR System for Nursing Home near Fuhais

Serving the community



SBR System at Private Home near Hummar



Demonstration; various systems in one location

Research and Graduate Studies



Technical support to researchers at the facility

Capacity Development and Serving Water Utilities

Example Topics

1. **Planning of decentralized wastewater systems**
2. **Operation and maintenance of decentralized wastewater technologies**
3. **Monitoring and troubleshooting**
4. **Sampling of wastewater**
5. **Reuse possibilities of reclaimed wastewater and sewage sludge**
6. **SMART-MOVE project specific technologies: sequencing batch reactor technology (SBR), modified septic tank, eco-technologies**

Capacity Development and Serving Water Utilities



Technical Training Course on Decentralized Wastewater Treatment Solutions

12 - 14 February, 2018
Amman, Jordan



Federal Ministry
of Education
and Research



Capacity Development and Serving Water Utilities



“SCARCE – Desalination, Diplomacy and Water Reuse in the Middle East”. The project is under the DUCP2 Program in IHE-Delft

The idea of having a platform and the way forward

Challenge, opportunity, or both!
Can we build on what we have!

Platform - The very beginning



Stakeholder Meeting discussing the Strategic Directions of IHE-Delft, April 2016

Platform - The beginning

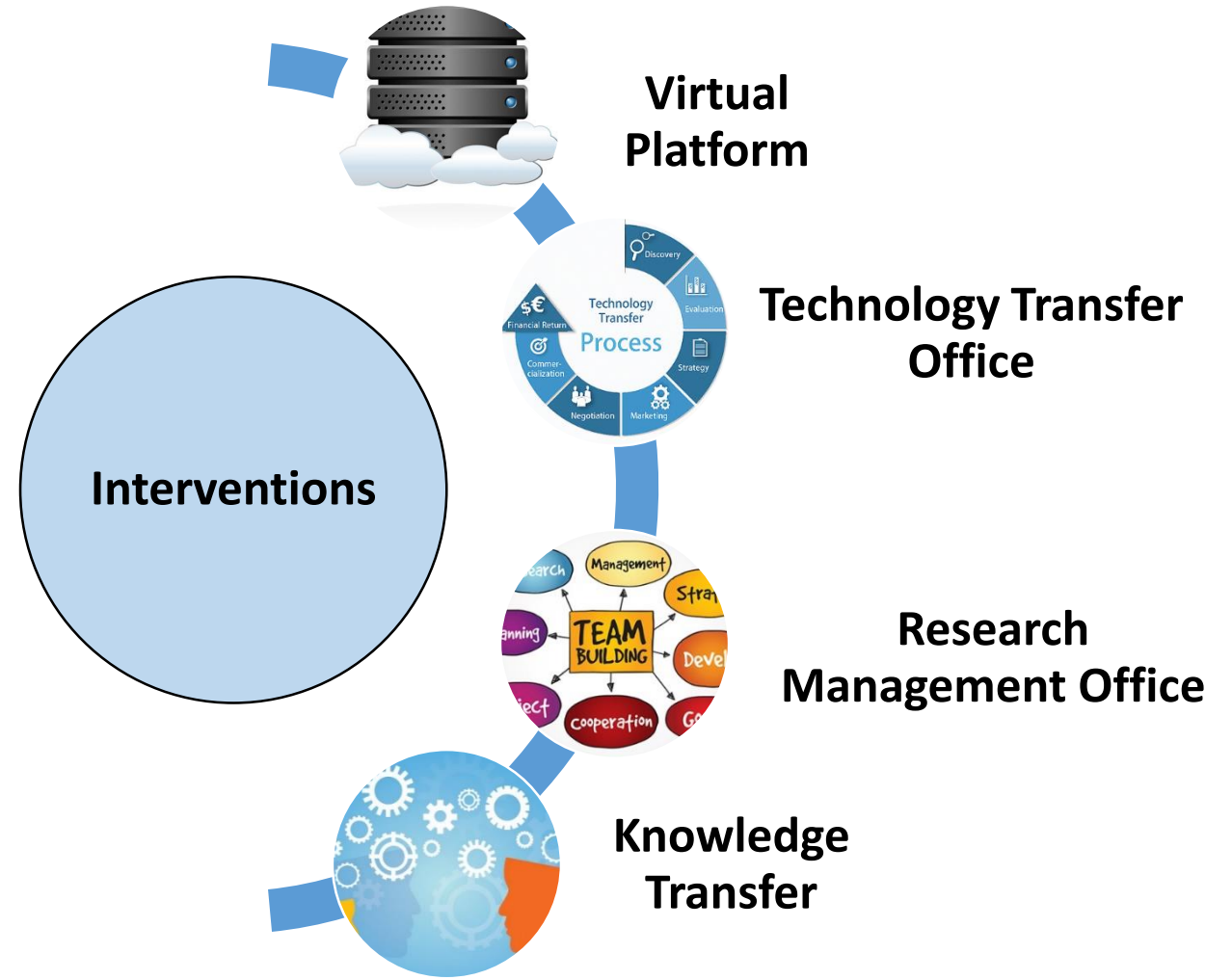


Focus group discussing the initiative during SCARCE Project Activity in Jordan

Platform – Similar ideas



Co-funded by the
Erasmus+ Programme
of the European Union



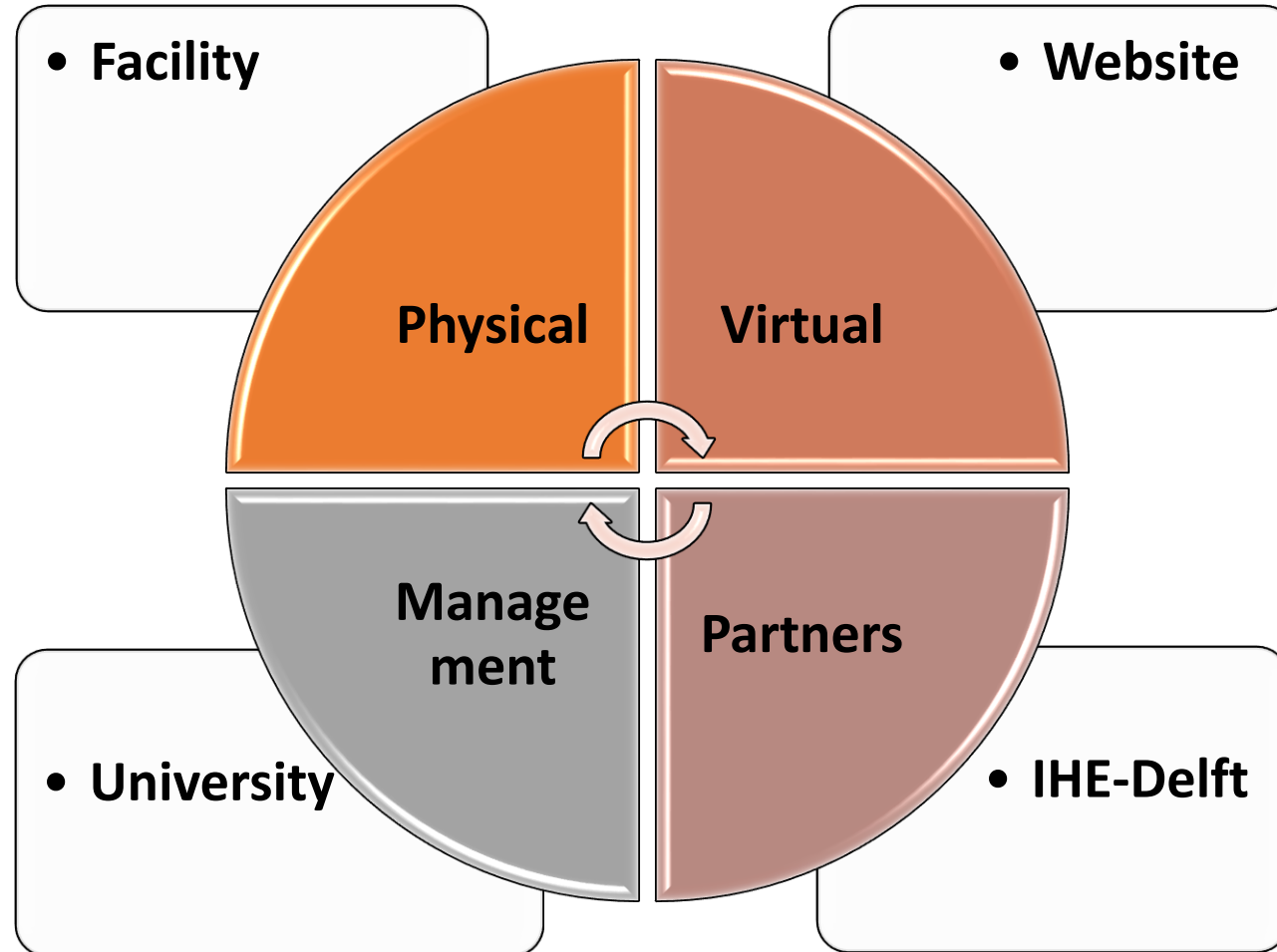
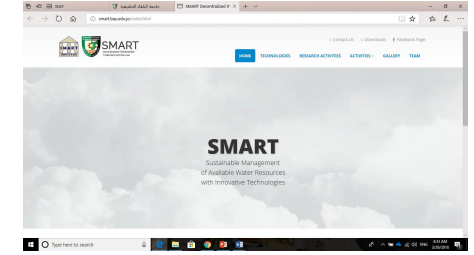
*Modernization of Institutional Management of Innovation and Research
in South Neighboring Countries – Managed by Dr. Naser Almanaseer*

The Facility >>> Physical Platform

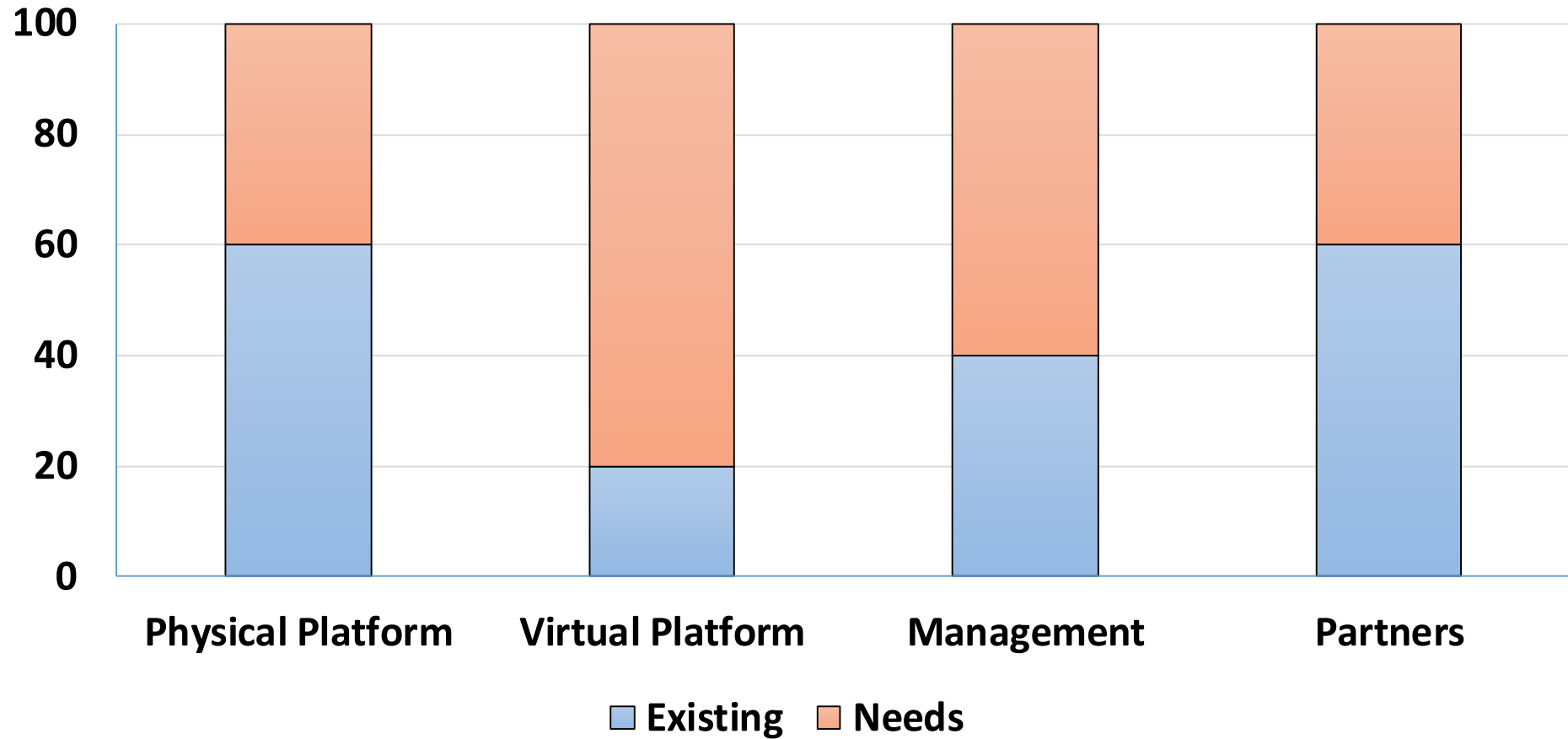




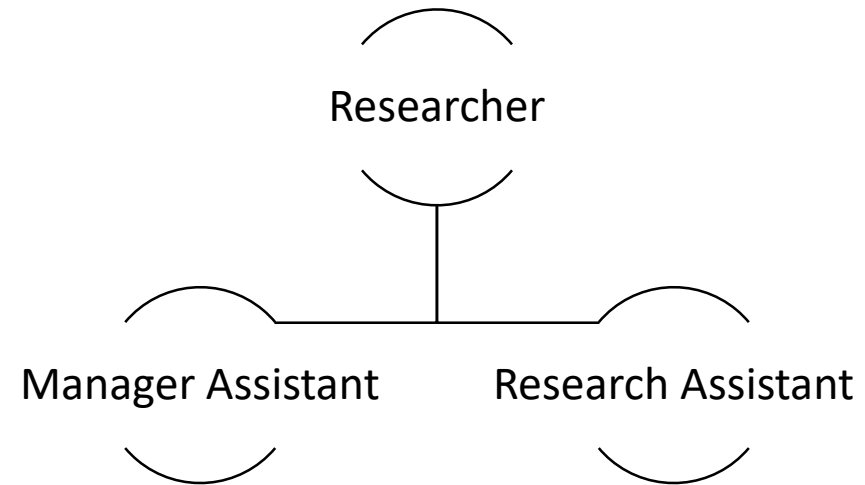
Conceptual Platform



Current Status



Current Status – Administration and Finance



Not sustainable

Current Status – Expenses

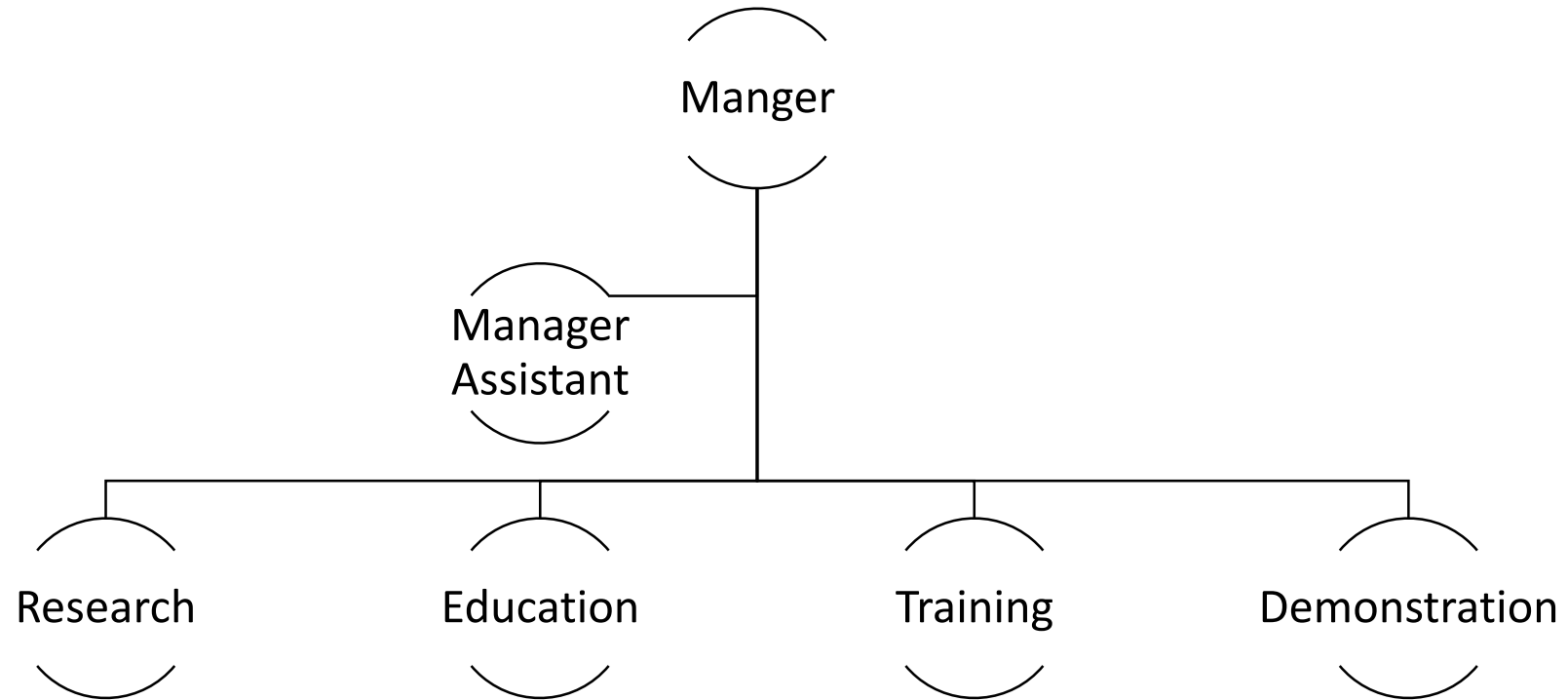
Item	Euro / month	Euro / Year
Staff and Researchers	3600	43200
Operation and maintenance	500	6000
Transportation	300	3600
Water and power bills	300	3600
Chemicals and test kits	300	3600
Website	100	1200
Total	4500	57600

Current Status – Income?

The way forward

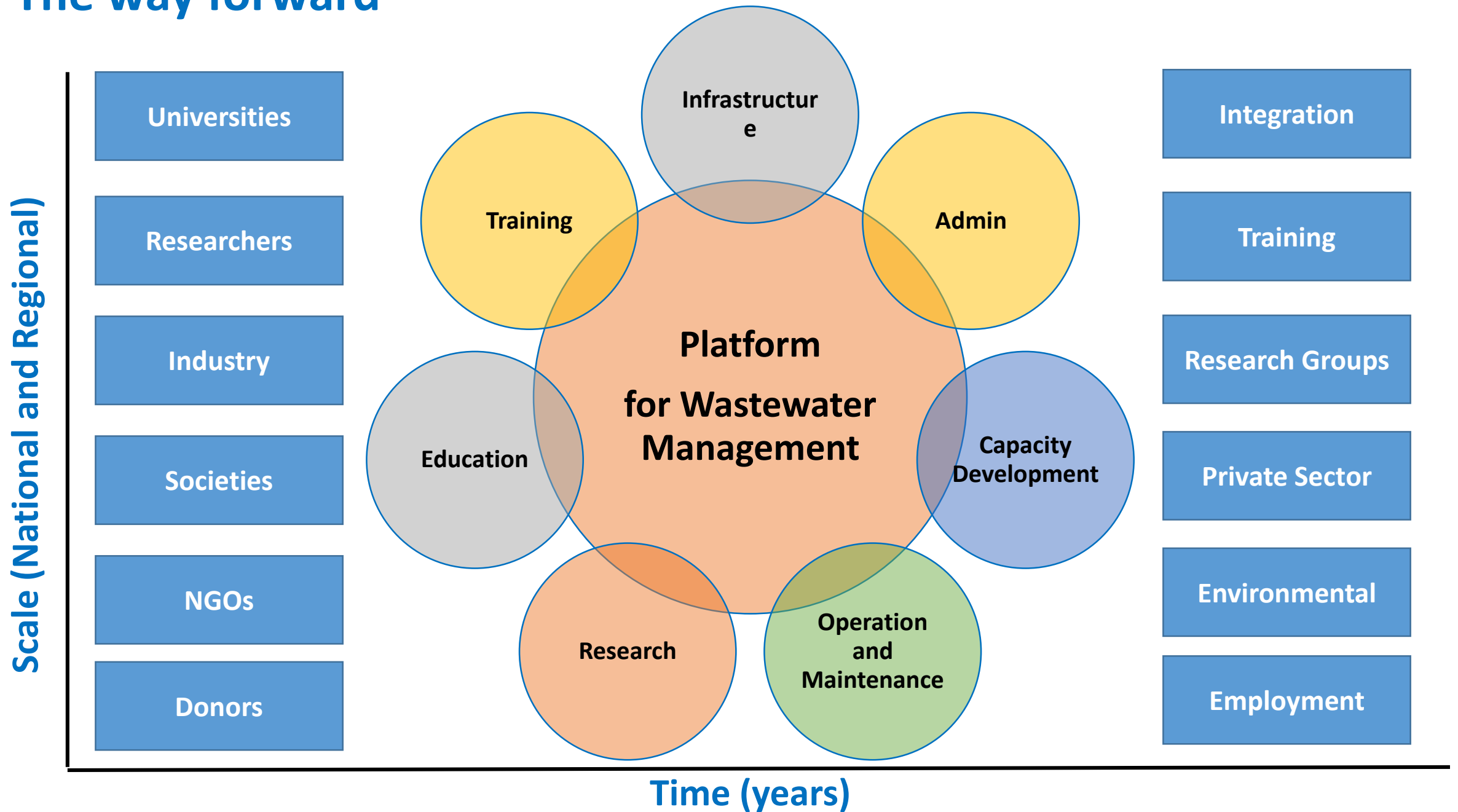
Administration

Integration to the University System



Virtual and Physical

The way forward



SESSION 2

The Way Forward

Expert Stakeholders Reflections

Moderator: Tessa Terpstra

MENA Regional Envoy for Water and Energy Security, Counsellor

Embassy of the Kingdom of the Netherlands



Necessity for a “Regional Platform for Excellence in Wastewater Management”

Needs, challenges, and opportunities

Innovative Platform; Physical and virtual components

Know-how activities beyond virtual, think tank, and
promote individuals and entities

Services Provided; Demonstration, Education, Research, and Training

Dissimination of innovative technologies, skillful workers and experienced researchers, technical education and vocational training toward employment

Feasibility and sustainability of the Regional Platform

Improved conceptual business model

Collaboration and synergies at national and regional levels

Potential counterparts - Consortium

Overall reflections

Expert Stakeholders

SESSION 3

Field Visit to the Competence Facility for Decentralized Wastewater Management at Fuhais

Guidance: Dr. Naser Almanaseer

Wastewater Treatment Technologies Laboratory and Monitoring System Operation and Maintenance

CIM Expert Dr. Noama Shareef, Site Engineer Mohammad Jad, and Site Engineer Raihan Abu Harb



IHE
DELFT

Global Partnership
for Water and
Development

Master Thesis and Graduation Projects

Researcher Eng. Raihan Abuharb
Undergraduate students

Overall Reflections and Recommendations

Expert Stakeholders

The way forward

