

WATER AND INNOVATION

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Two topics

- Some Current and Future Key Macro Drivers towards innovation in the water sector.
- Some thoughts on The Way Forward.

Some Current and Future Key Macro Drivers towards innovation in the water sector

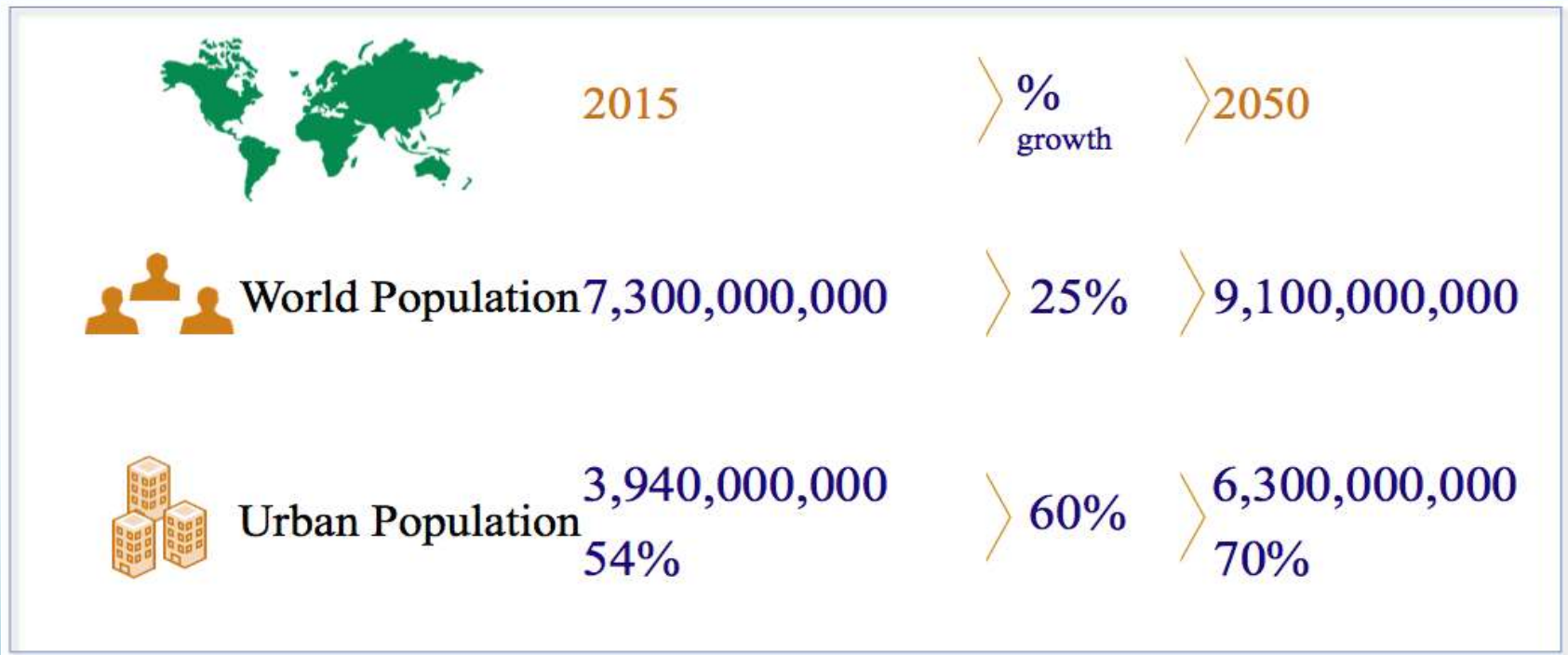
Climate Change

Even if we change our habits today, we cannot escape the consequences that are already embedded due to our past behaviour towards the planet.

Some Current and Future Key Macro Drivers towards innovation in the water sector

Population Growth

Population growth, urbanization, migration and industrialization are projected to increase global demand for water by 55% by 2050.



Source: UN World Water Development Report 2015, Water for a Sustainable World

Some Current and Future Key Macro Drivers towards innovation in the water sector

Population Growth

In 2050:

52%

of the world's population will live in water-stressed areas.

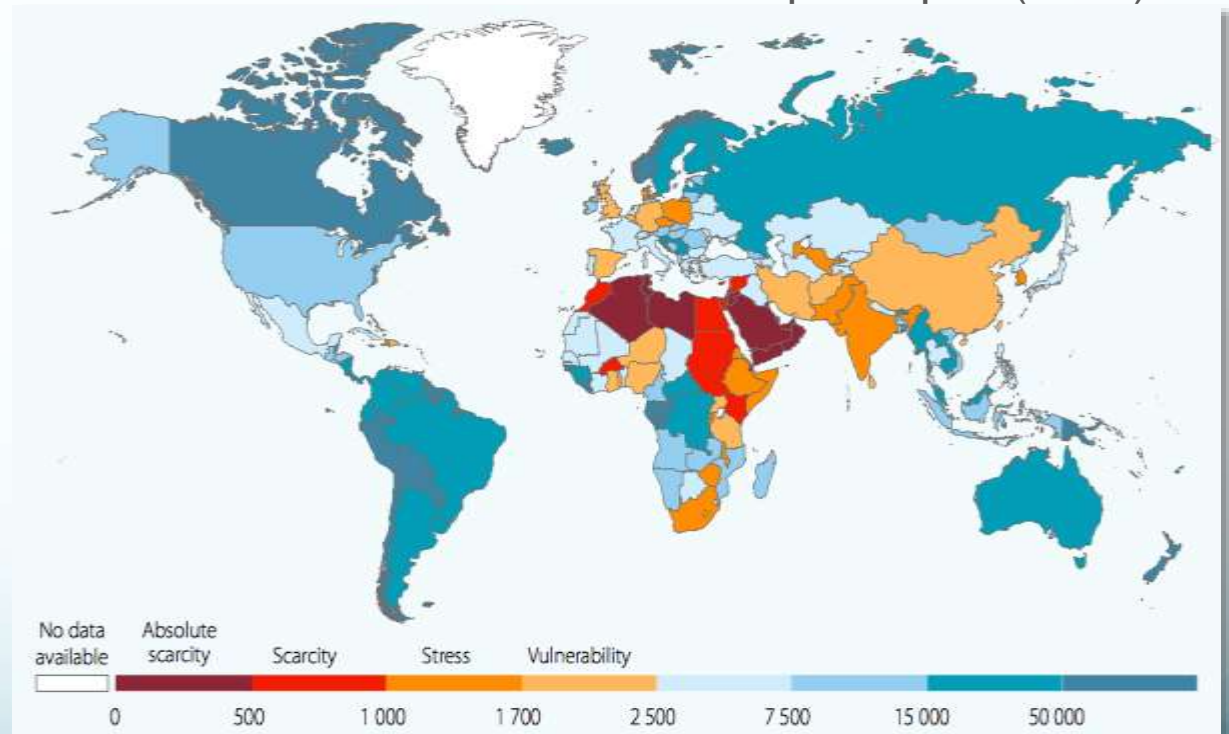
240 million

people will not have access to an improved water source.

4 billion

people will not have access to basic sanitation.

Total renewable water resources per capita (2013)



Source: UN World Water Development Report 2015, Water for a Sustainable World; The OECD Water Outlook to 2050

Some Current and Future Key Macro Drivers towards innovation in the water sector

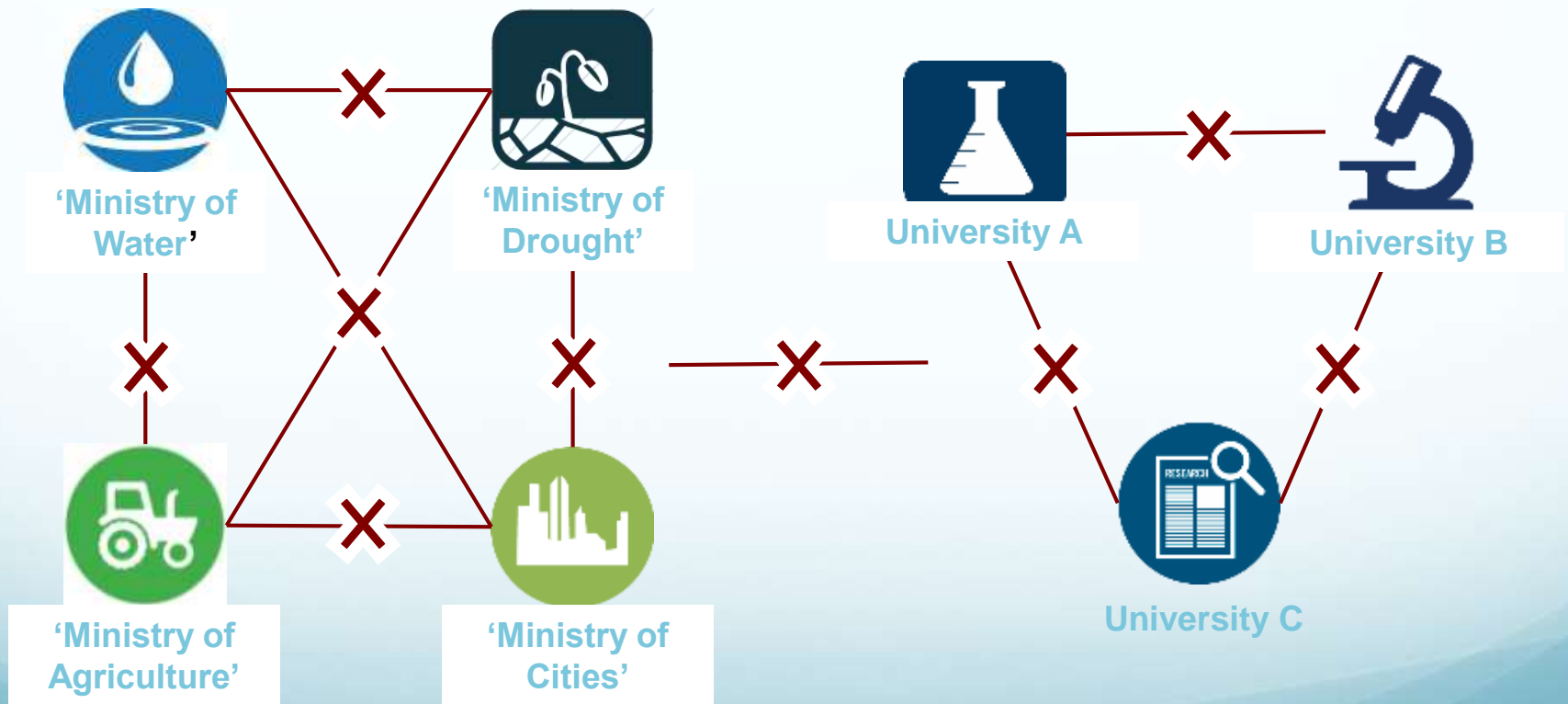
The Move to the Cities

- Africa will become the most rapidly urbanizing region on the planet.
- Currently only Lagos, Cairo and Kinshasa are megacities.
- Within the next 20 – 30 years at least another six cities will become megacities including: Johannesburg, Luanda, Nairobi, Addis Ababa and Khartoum.
- In Nairobi 60% of the population lives in 6% of the land.
- The example of Kibera.

The Way Forward

The Need for Joined Up Thinking

Water is everywhere and nowhere. Ministries and Universities are failing to communicate across policy and research, leading to a lack of joined up action to develop innovative water technologies.



The Way Forward

A Global Perspective

- The Private Sector has to be part of the solution.
- Need for a more flexible contract model – a ‘gain share’ management contract.
- Need for different forms of project finance – asset leasing.
- Need for the municipal market to learn from the industrial market.

The Way Forward

A UK Perspective

- Need for more joined up thinking at Government and research levels.
- Need for closer collaboration between trade associations.
- Need for a more integrated UK Plc approach to the development of water technology innovation.
- Need for a national system of test centres.
- Need for systems integrators.

Conclusion

If we carry out the suggestions that I have made earlier:

- We can make a real contribution to addressing the three macro drivers.
- In the UK, the establishment in 2015 of The UK Water Partnership was a key milestone in our journey to address the challenge of bringing more water technology innovation into the domestic and global market place.