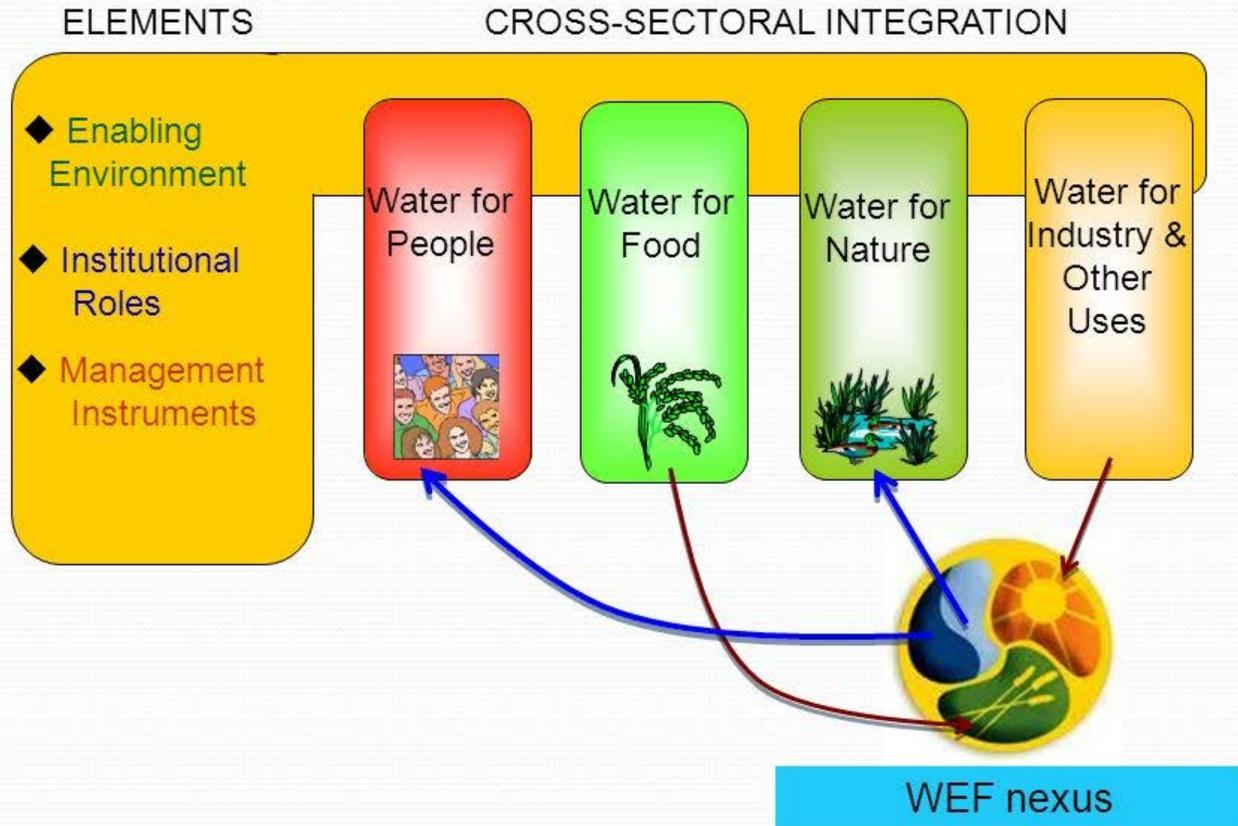


WHERE HAS ALL THE WATER GONE?

FELIX DODDS CO-DIRECTOR 2018 NEXUS
CONFERENCE AND SENIOR AFFILIATE AT THE
WATER INSTITUTE UNIVERSITY OF NORTH
CAROLINA

IWRM Elements and Subsectors



WATER
CHALLENGE

ALL LIFE FORMS
DEPEND ON
WATER

WATER IS THE
MOST ESSENTIAL
ELEMENT OF LIFE
WITHOUT WATER
YOU CANT MAKE
COFFEE

.....

AT THE TIPPING POINT



Nexus
Water, Food,
Climate & Energy

2010

Water

990 million without access to safe drinking water
2.5 billion without access to sanitation

Energy

2.5 billion without access to modern forms of energy
1.5 billion without access to electricity

Food

1 billion suffering from hunger

2030

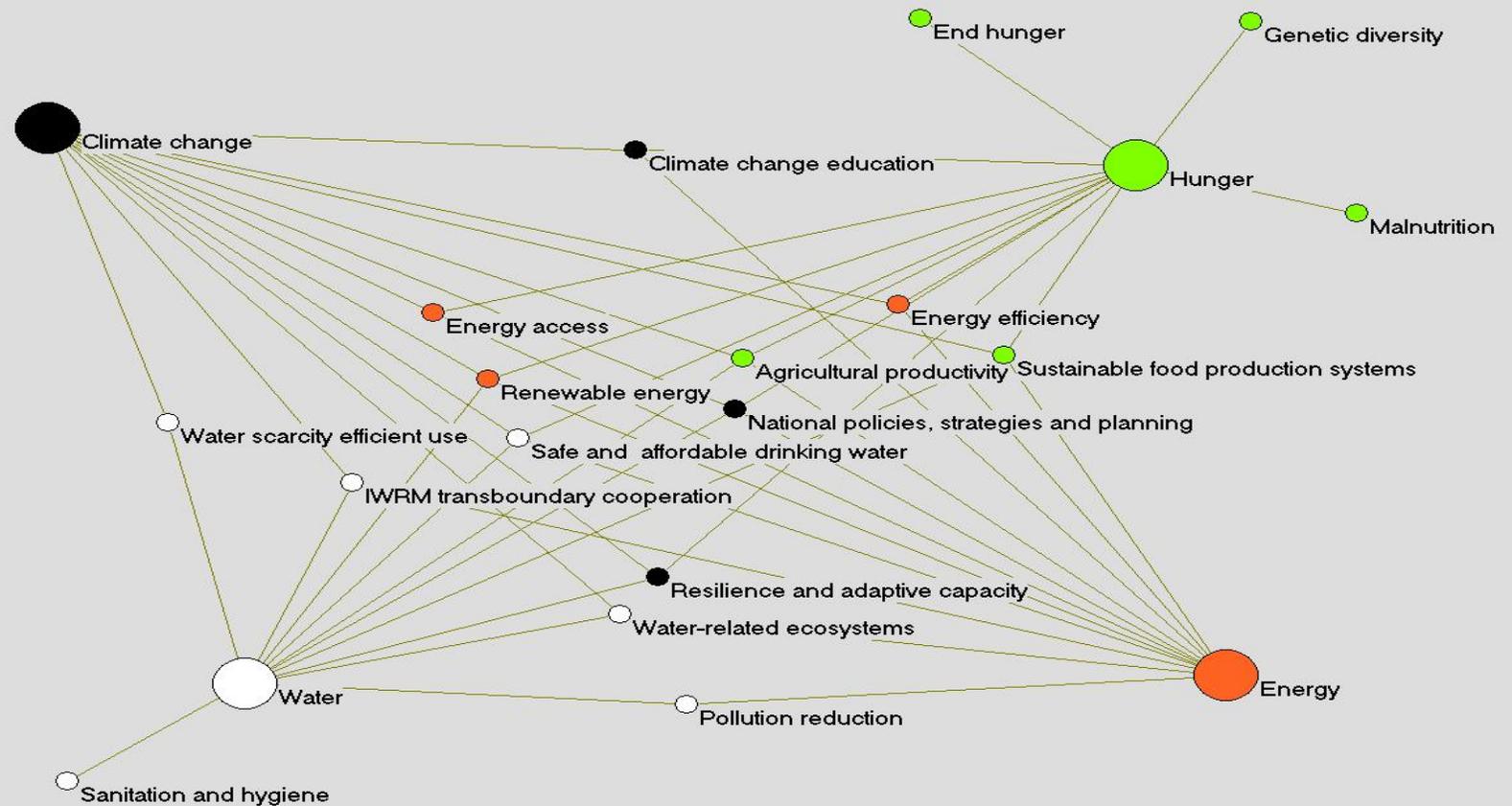
Population growth, urbanization, economic growth, climate change

+40% energy demand

+30-50% food demand

40% gap of water resources
(Between availability and demand)

INTERLINKAGE WATER-ENERGY-FOOD-CLIMATE CHANGE



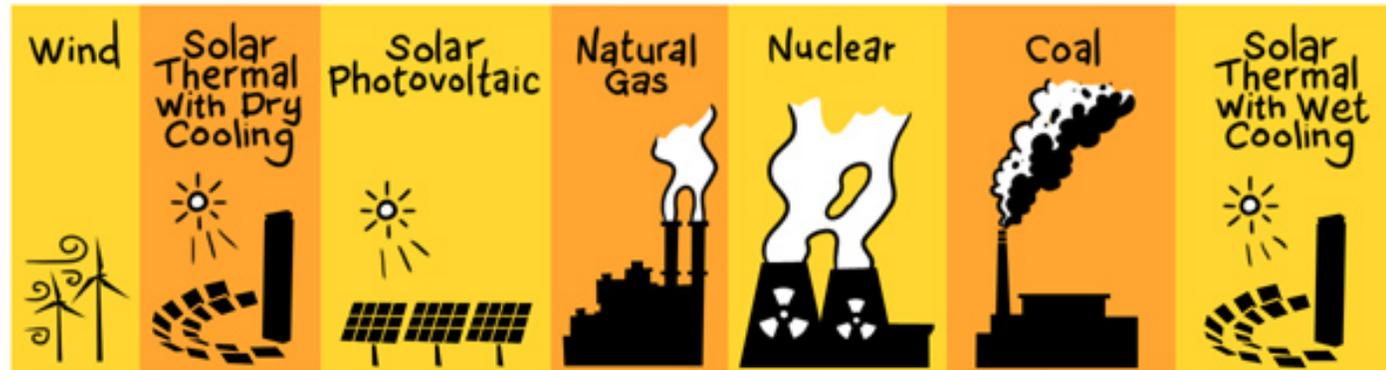
CIRCULAR ECONOMY

Create more with less the challenge of having to potentially produce up to 40% more food and energy by 2030 with less water requires increased resource productivity and an accelerated shift away from fossil fuels to renewables.



Image: European Parliament

WATER USE BY POWER PLANTS*



0 gallons 26 gallons 26 gallons 198 gallons



ENERGY REDUCTION

"the future is green energy, sustainable, renewable energy."

Arnold

Schwarzenegger

NEXUS POLICY COHERENCE

Increase policy coherence: This is critical to any approach to the SDGs and particularly in the area of water within the Nexus. Policy Coherence will enable better synergies and trade-offs among water, energy and food in the design and implementation of policies, plans and investments.



ROLE OF SUB-NATIONAL AND LOCAL GOVERNMENTS

Local and regional governments must respond not just to issue linkages but also to spatial linkages between societies, ecosystems, and economies. Urban and rural landscapes and human settlements are inextricably linked and policy-making must reflect this.



ALIGNING INDUSTRY TO THE NEXUS

ESG Reporting The push for all companies listed on the stock exchanges to have to produce their ESG reports will go along way to industry starting to address the Nexus issues



PRINCIPLES FOR THE INTEGRATION OF THE NEXUS WITHIN BUSINESS

- Principle 1: Respect Human Rights to Ensure All Benefit from the Nexus
- Principle 2: Ensure integrity, transparency and accountability in addressing the Nexus
- Principle 3: Support Government Attempts to Build a Sustainable Nexus Regulatory Framework
- Principle 4: Promote Co-design and Mutually Beneficial Partnerships
- Principle 5: Seek Innovative Methods of Sustainable Resource Usage
- Principle 6: Incorporate Nexus Views in Future Development

NEXUS 2018 APRIL 16-18TH

CHAPEL HILL NORTH CAROLINA

WATER-ENERGY-FOOD-CLIMATE CHANGE THROUGH AN URBAN LENS

- Input to the High Level Political Forum
- Science-policy interface
- Financing the Nexus
- Nexus partnerships
- Resilient cities
- Solutions and tool kits
- IWRM and SARD
- Capacity development for the Nexus





**"WE CAN'T SOLVE PROBLEMS BY USING
THE SAME KIND OF THINKING WE USED
WHEN WE CREATED THEM."**

**"TWO THINGS ARE INFINITE: THE
UNIVERSE AND HUMAN STUPIDITY; AND
I'M NOT SURE ABOUT THE UNIVERSE."**

EINSTEIN