



ASIA-PACIFIC MINISTERIAL CONFERENCE ON
Disaster Risk Reduction

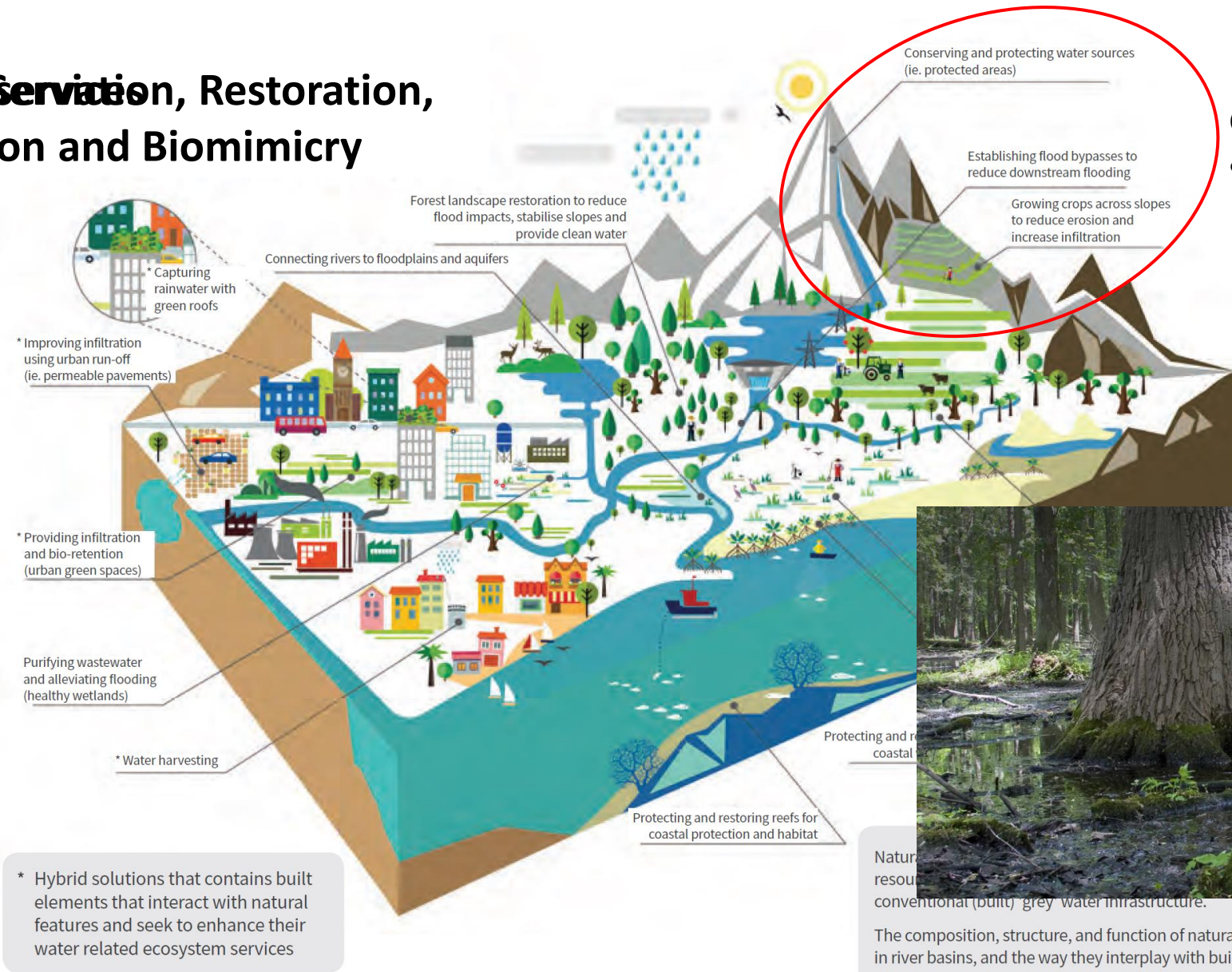
Brisbane, Queensland, Australia 19–22 September 2022



Nature-based Solutions for Water

Professor Tony Wong, Monash University

Ecosystem Conservation, Restoration, Rehabilitation and Biomimicry

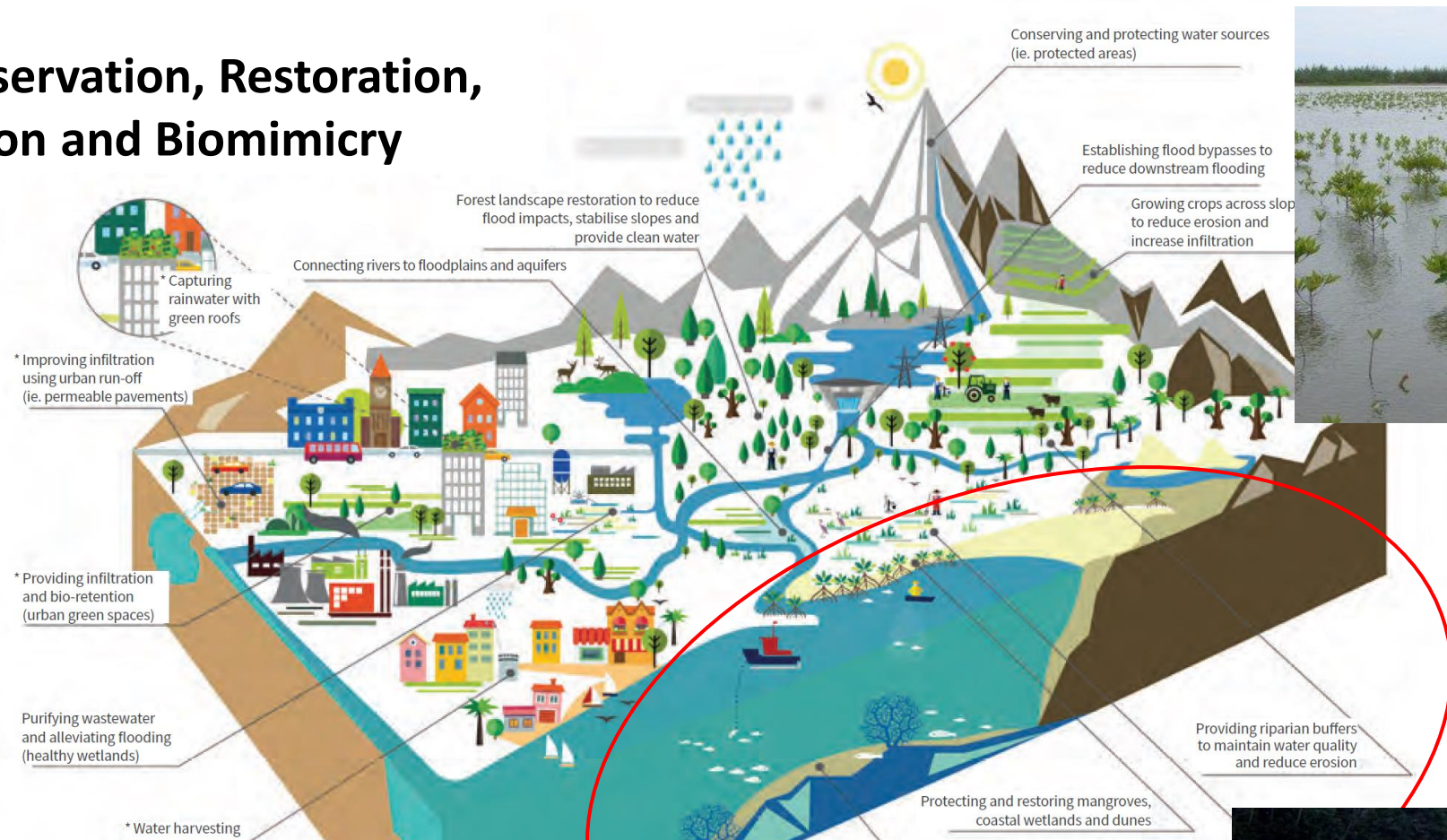


Conservation & Restoration



Natural resources are integrated with conventional (built) grey water infrastructure. The composition, structure, and function of natural infrastructure assets in river basins, and the way they interplay with built 'grey' infrastructure will determine the primary services and co-benefits produced. Further information can be found in UNEP-DHI/IUCN/TNC (2014).

Nature Conservation, Restoration, Rehabilitation and Biomimicry



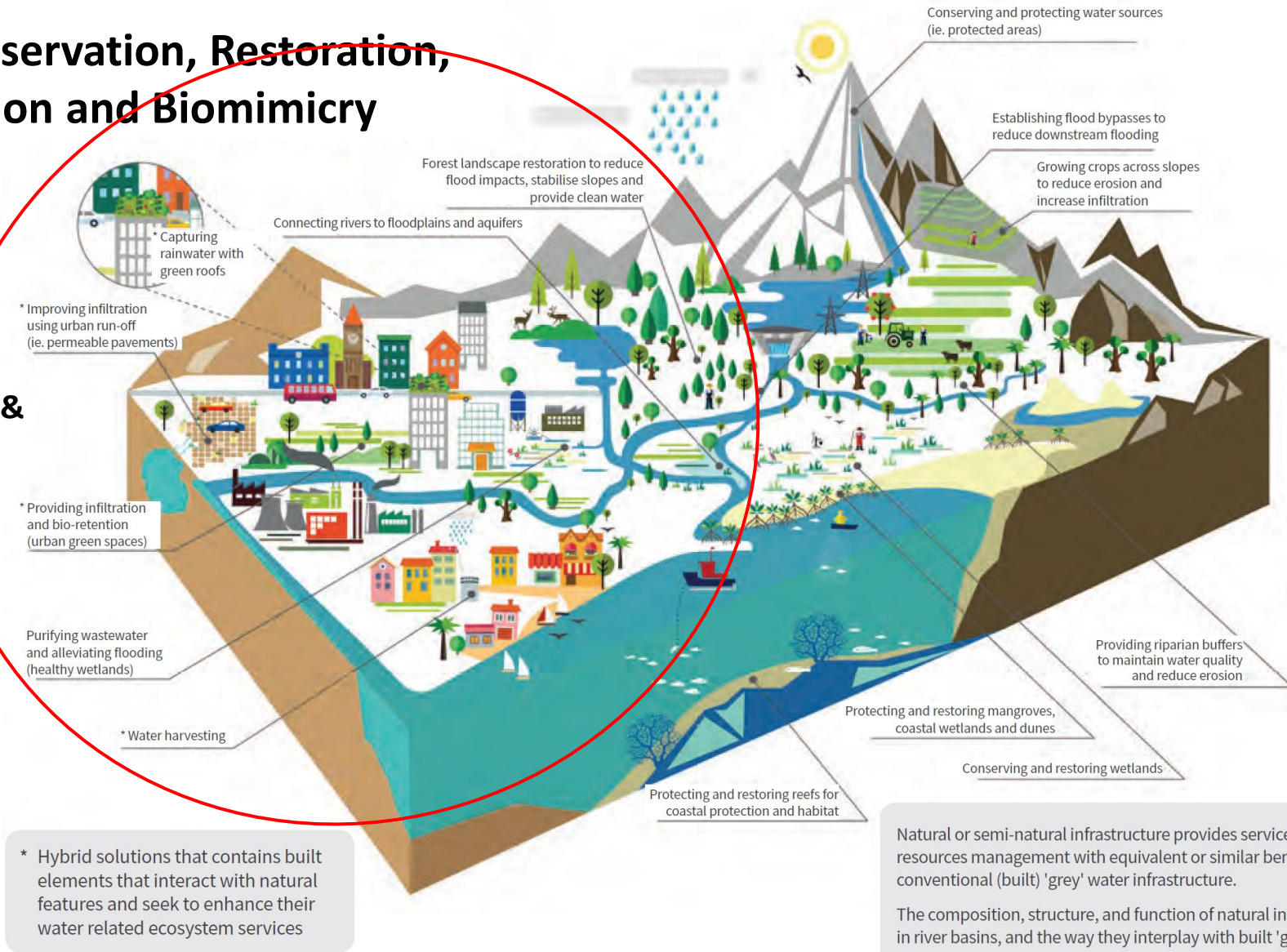
Restoration & Rehabilitation

Natural or semi-natural infrastructure resources management with equal conventional (built) 'grey' water infrastructure. The composition, structure, and function of natural infrastructure in river basins, and the way they are managed, will determine the primary services they provide. Further information can be found at [www.naturalinfrastructure.org](#)



Nature Conservation, Restoration, Rehabilitation and Biomimicry

Rehabilitation & Biomimicry



The role of transport corridors in city shaping

- *Transport corridors provide essential access and connectivity and are fundamental building blocks in shaping and connecting cities*
- *Transport corridors provide the essential connective networks with which **nature-based solutions**, and resulting ecosystem services, can be implemented throughout urban communities.*



Multi-functional Corridor @ Kunshan Ring Road



Ecosystem services in strengthening resilience for the urban poor



Flood | Sanitation | Water Quality | Water Sources | Productive Landscapes

Protection

Improving
Public health

Improving
environmental
quality

Rainwater harvesting
& wastewater
recycling

Serviced through alternative
water supplies





November 2017



November 2017



July 2019




October 2019



Concluding Remarks

- ❑ nature-based solutions can take many forms and involve many different disciplinary practices
 - a recognition of the role of nature in help us address the many challenges we face
 - nature-based solutions alone can contribute, but not fully address these challenges
 - “solutions” in terms of harnessing ecosystem services through the practices of nature conservation, restoration, rehabilitation and biomimicry

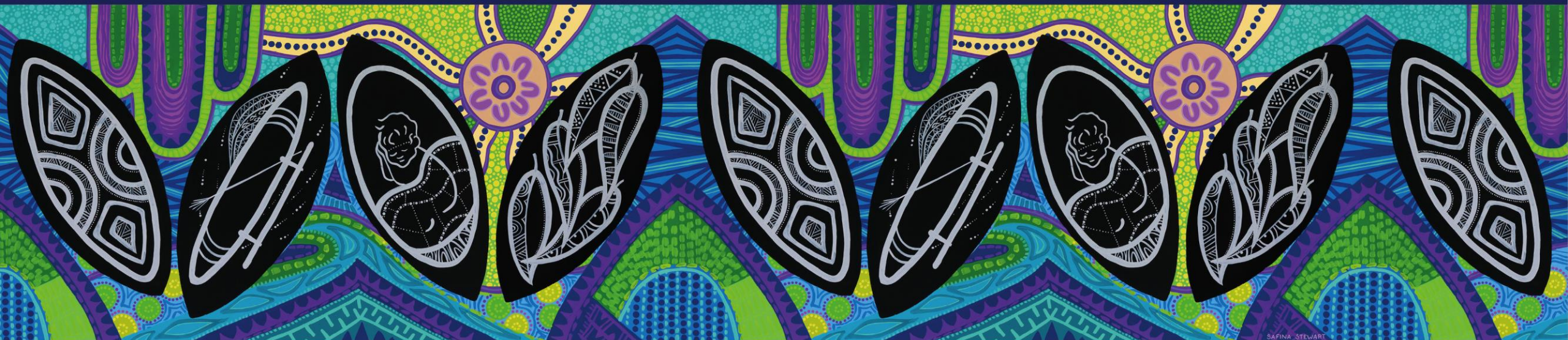
 - ❑ Inter-disciplinary collaboration across multiple disciplines all need to come together to enable nature-based solutions to be an integral part of efforts in disaster risk reduction.
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