



A Blueprint for the Resilience of our World's Rivers

Rivers for Future Generations



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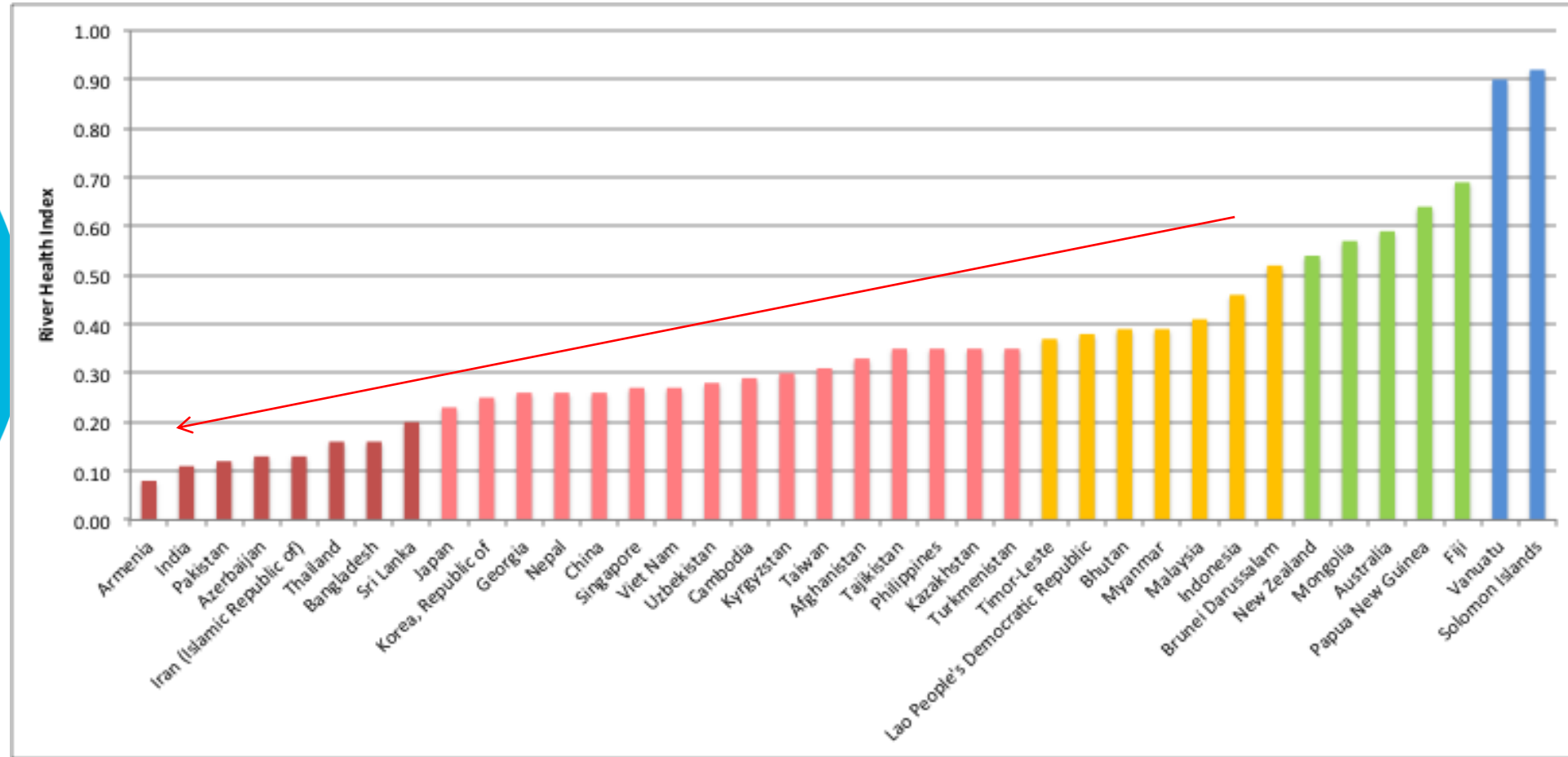
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Key points:

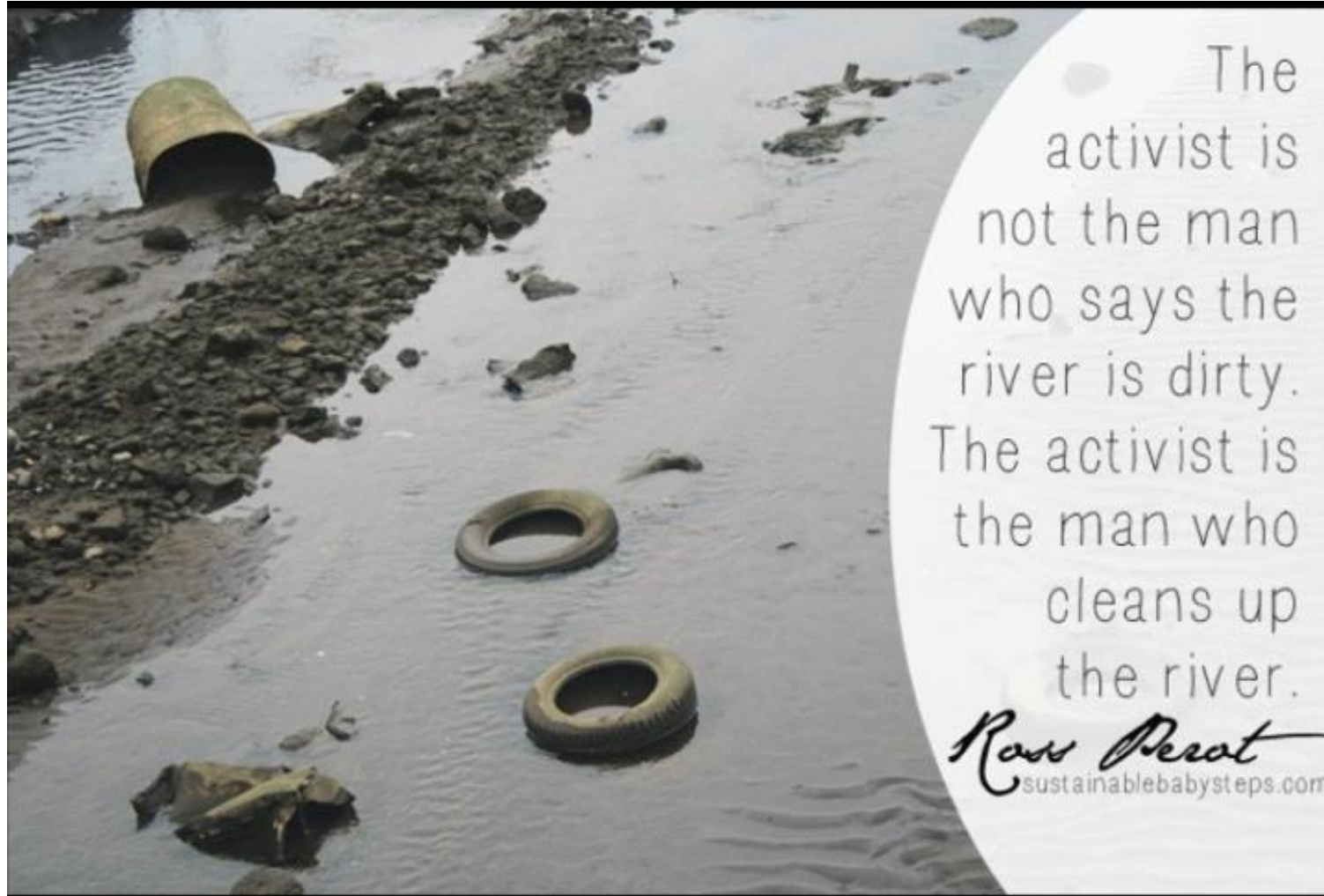
1. A paradigm shift is needed: from river recovery to river resilience
 - *The vision: from river recovery to river resilience*
2. Ecological, Economic and Social resilience are interdependent
3. How can we operationalise the terms Resilience in our rivers?
 - *Integrated Water Resources Management – a strong foundation*
4. Come and join our journey: *A blueprint for Resilient Rivers*
 - *Celebrate, collaborate, transform*

80% of rivers in Asia Pacific area in poor condition...

(Asian Water Development Outlook 2013)

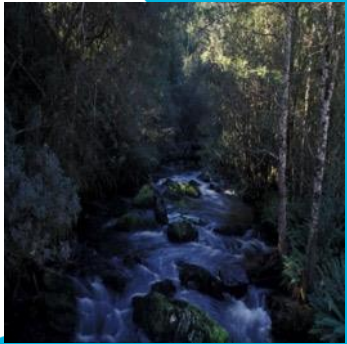


But...



A paradigm shift is needed for our rivers and waterways...

Waterways
as sources
of water



service-based

reactive

Waterways
as sewers



Waterways
as a lifestyle



outcome-based

strategic

Waterways
for future
generation



recovery

sustainability

Resilience

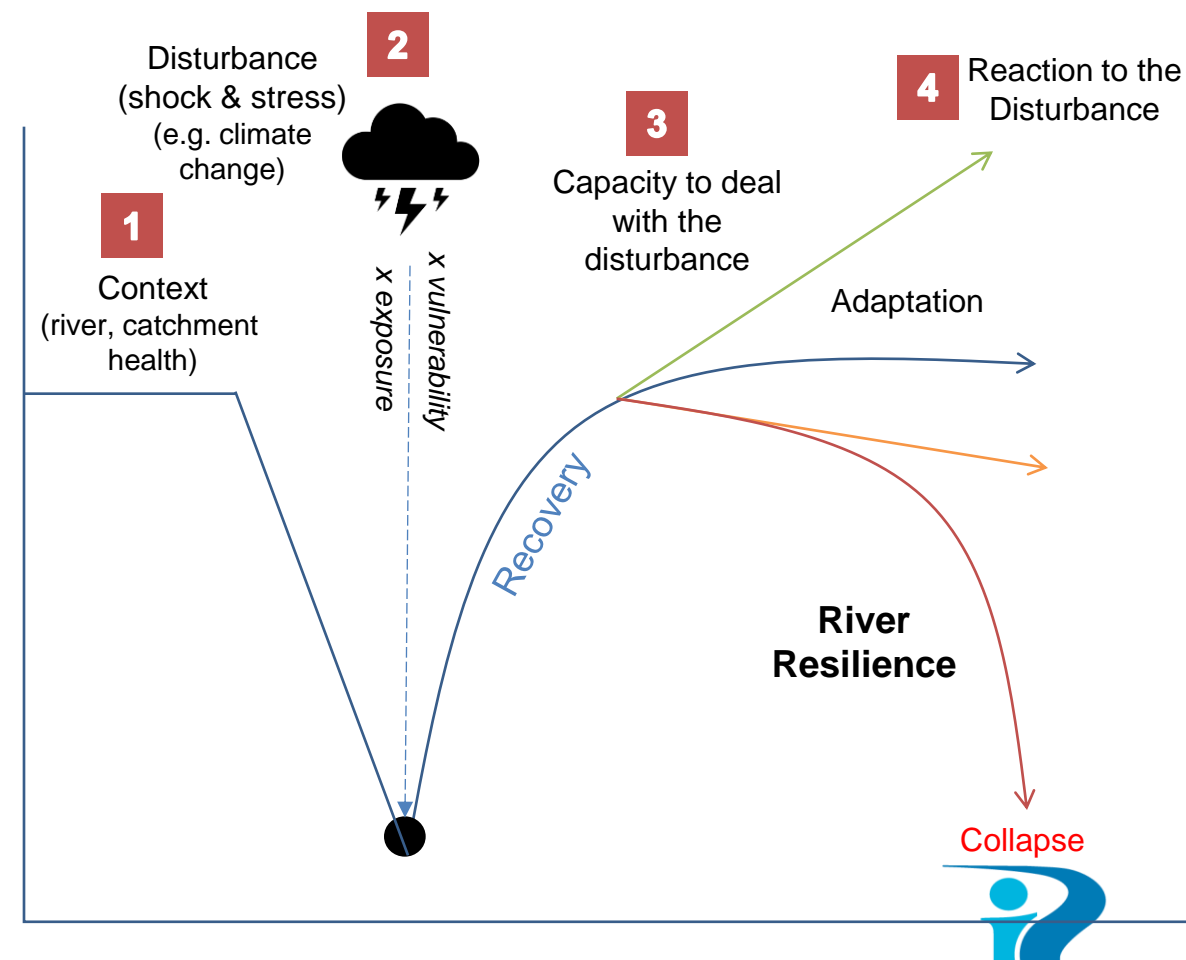
What are resilient rivers?

Resilience:

the capacity of a river system to

- tolerate disturbance without collapsing,
- to withstand shocks,
- to rebuild itself, when necessary, and
- to improve itself when possible.

www.gsdr.org



Components of a Resilient Framework

Why resilient rivers?

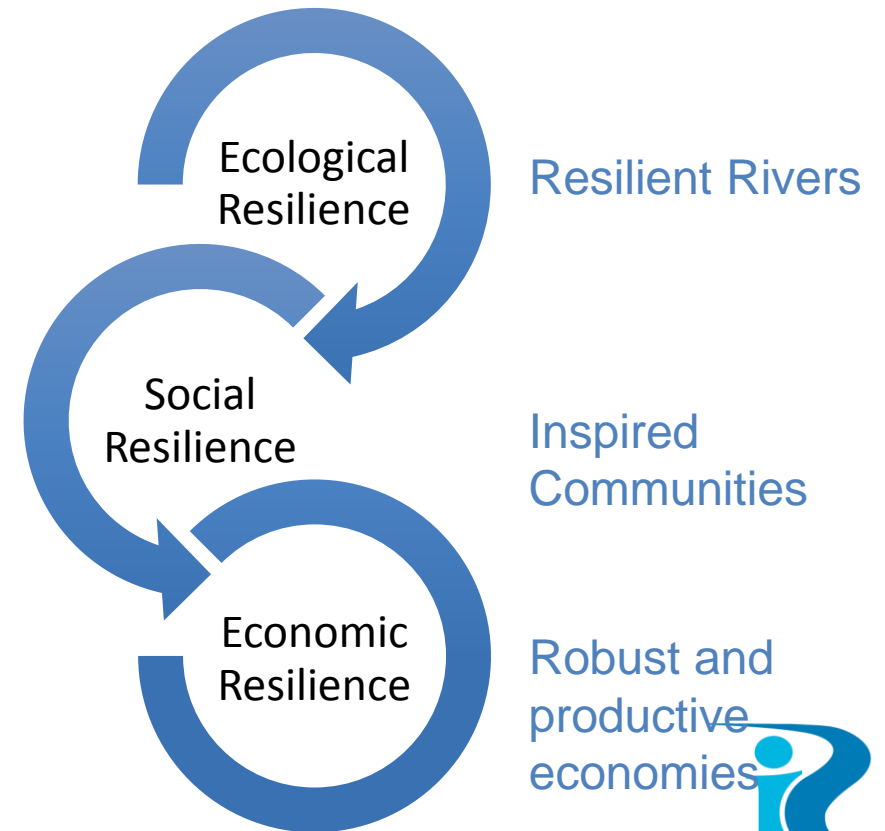
Resilient Rivers Initiative (SEQ, Australia)

for the robust future of our waterways...

Minneapolis Riverfront Turenscape Team

- A new lifestyle of the Resilient River
- A river worthy of respect, even reverence, and protection from harm
- A new relationship between the people and their river, which can inform the way of living within nature, across the city and region.

Resilience Interdependencies:
Ecological, Social, Economic



Be part of the journey:

An international partnership for resilient rivers

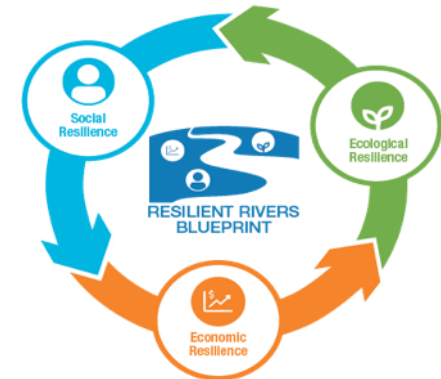


Our goal is to develop a Blueprint which will be applicable to rivers around the world.

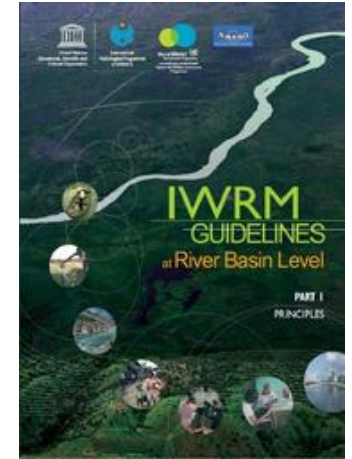
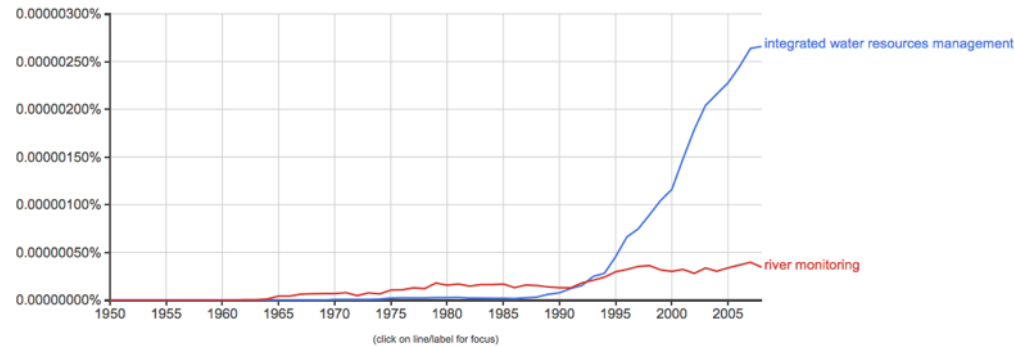


The Blueprint will inspire global transformation towards resilient rivers, communities and economies.

- **Outline a set of key principles** towards a paradigm shift from river recovery to river resilience;
- **Build on existing integrated river basin and water resource management frameworks** by identifying mechanisms for mitigating and adapting to climate change;
- **Promote a holistic and transparent partnership**, including access to information and tools;
- **Encourage river basin organisations** by ensuring that rivers and their basins are integrated in planning and design to provide increased climate resilience;
- **Provide a suite of innovative engagement and financing mechanisms** to contribute to the protection and restoration of our rivers for future generations
- **Showcase recovery to resilience pathways** through regional case studies, e.g. Yangtze River Basin
- **Be a catalyst of reform** in governance and institutional arrangements to achieve resilient rivers.

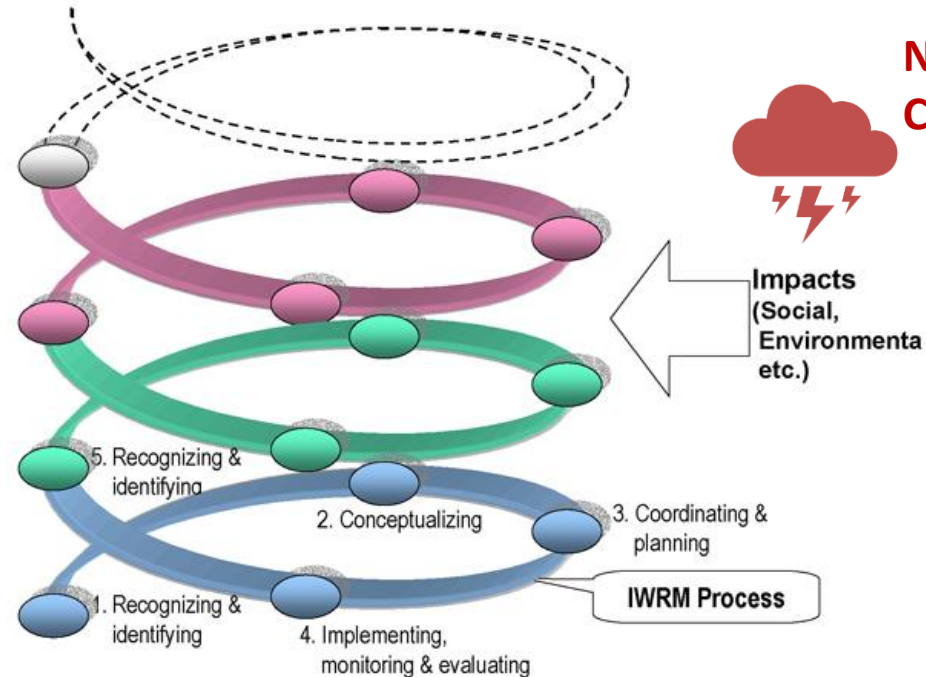


Integrated Water Resources Management: a strong foundation



RESILIENCE

Progress of IWRM

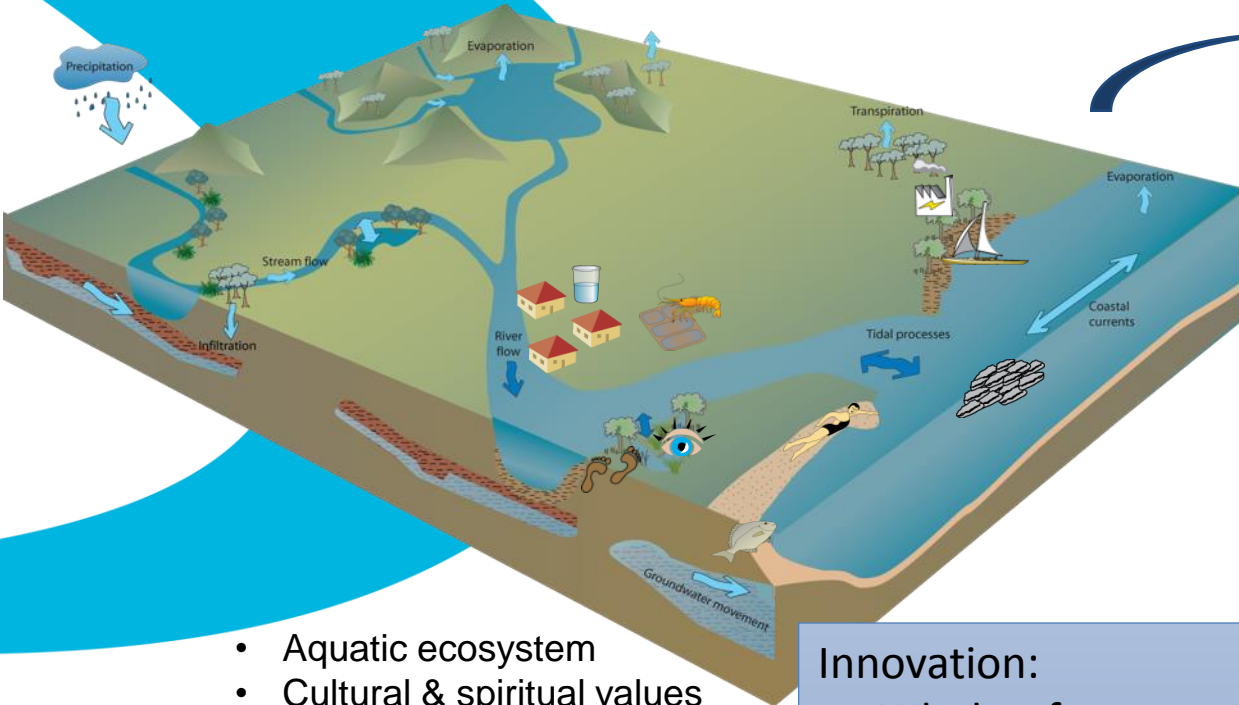


Need to factor in Climate Change

A whole-of-system understanding and partnerships: *needed*

Our rivers support a number of
environmental values

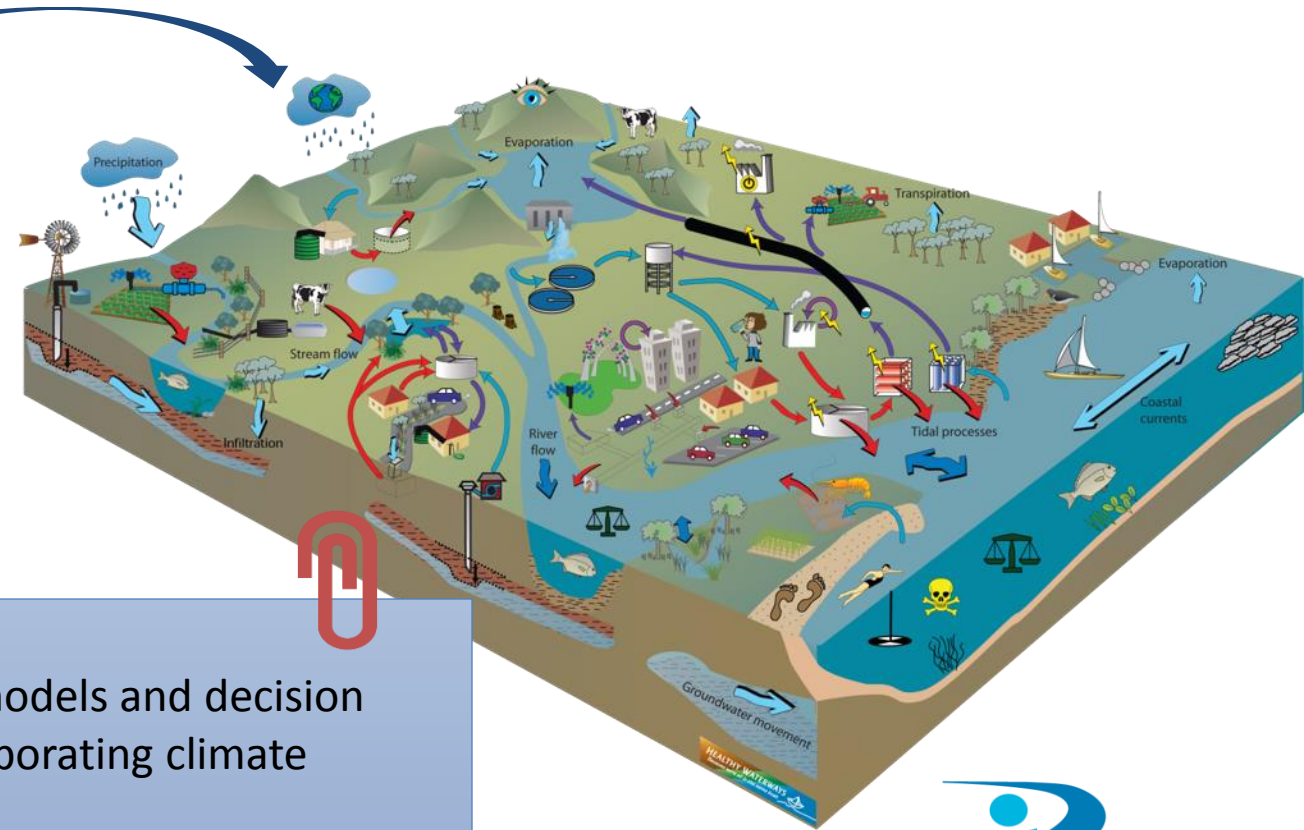
Multiple solutions for multiple
pressures



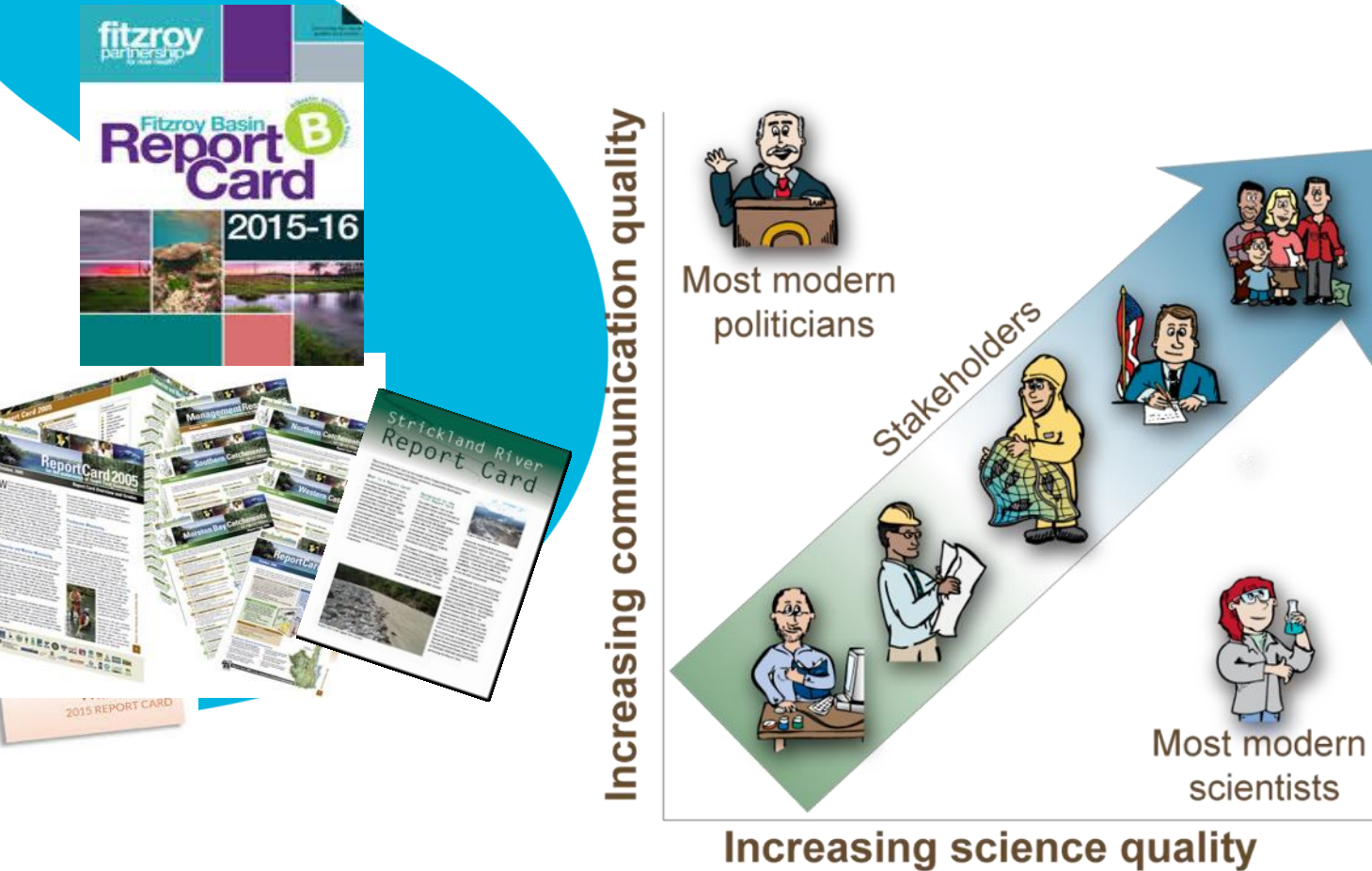
- Aquatic ecosystem
- Cultural & spiritual values
- Primary recreation
- Secondary recreation
- Human consumption
- Aquaculture
- Industrial use
- Drinking water

Innovation:

- Whole-of-system models and decision support tools incorporating climate change scenarios
- Upstream:downstream interdependencies
- PARTNERSHIPS



We need engagement tools that provide truth to power



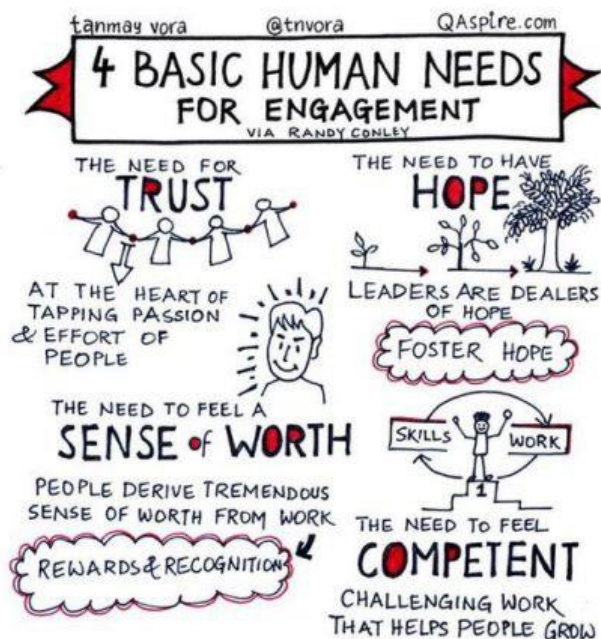
Report Cards:

- Enable large and complex data to be communicated to a broad audience
- Direct/focus management action
- Identify regions or issues of concerns
- Provide accountability; measure success of effort of management actions
- Framework for monitoring activities

**River Basin Report cards
provides truth to power.**

Engaging...inspiring...transforming communities

The Spectrum of Community Engagement



INCREASING IMPACT ON DECISION-MAKING				
INFORMING	CONSULTING	INVOLVING	COLLABORATING	EMPOWERING
Providing balanced and objective information about new programs or services, and about the reasons for choosing them. Providing updates during implementation.	Inviting feedback on alternatives, analyses, and decisions related to new programs or services. Letting people know how their feedback has influenced program decisions.	Working with community members to ensure that their aspirations and concerns are considered at every stage of planning and decision-making. Letting people know how their involvement has influenced program decisions.	Enabling community members to participate in every aspect of planning and decision-making for new programs or services.	Giving community members sole decision-making authority over new programs or services, and allowing professionals to serve only in consultative and supportive roles.

Adapted from the IAP2 Public Participation Spectrum, developed by the International Association for Public Participation.

Note: Engagement activities can include community surveys, neighborhood outreach projects, partnerships with grassroots organizations, public meetings, and efforts to select community representatives

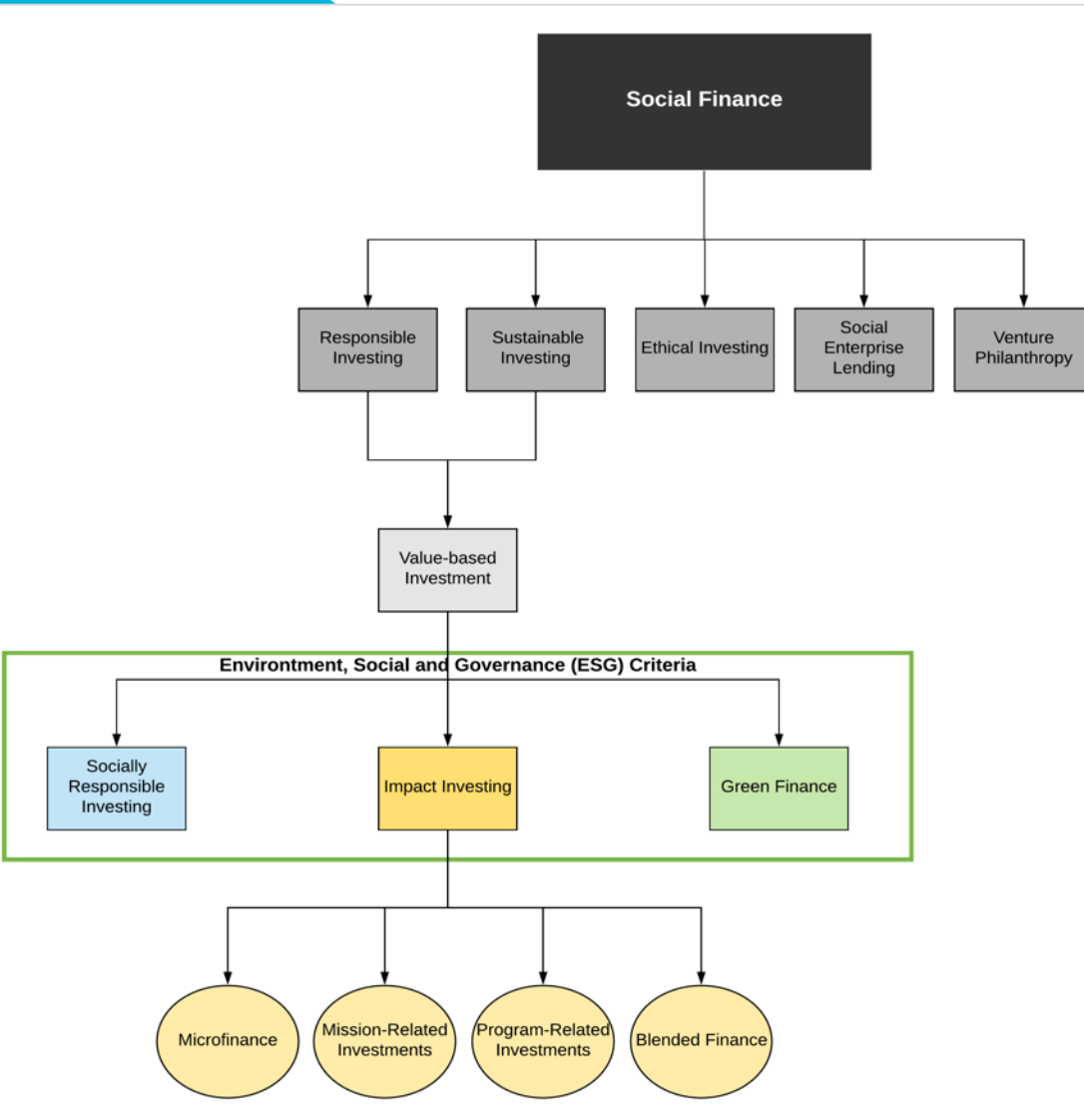
<https://artmuseumteaching.com>

Innovative solutions

Ex. Cross-sectoral solutions to address water, energy and food.
WEF Nexus becomes more important.



Innovative financial mechanisms...



- Payment for ecosystem services - e.g. ADB's project on: Economic investments in the YREB
- Environmental Accounting
- Ecosystem services/ecosystem-based solutions
- Natural Capital Investments
- Social finance and impact investments
- Iconic valuation of rivers
 - *"If you live in Brisbane, chances are you have spent time walking along the banks of the Brisbane River. The River is an intrinsic part of Brisbane's way of life. The simple fact of knowing that the Brisbane River exists in good health is valued at \$XX m/billion to Queensland."*

A Blueprint for Resilient Rivers

- Integrated planning frameworks for total water cycle management (IWRM);
- Decision support tools (RR Knowledge & Tool
- Strong policy, institutional arrangements and leadership (RR leaders & partnerships);
- Whole-of-system approach to restoration and rehabilitation (RR Solutions);
- Evaluation and Reporting (RR metrics);
- Innovative financial mechanisms (RR economics); and
- Informed and engaged stakeholders (RR communities).



How can you be part of the Resilient Rivers journey?



- Be part of the development of the Blueprint
 - Founding partners
 - Review of principles and framework
- Become an implementation partner to pilot the transition from recovery to resilience
 - Resilient Rivers Hub – knowledge, workshops, capacity building
 - Showcasing the work you are doing in rivers
- Become a signatory to the Resilient Rivers Blueprint and RR Knowledge Hub



University of Maryland
CENTER FOR ENVIRONMENTAL SCIENCE



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STATEMENT OF SUPPORT

Climate change will have significant impacts across many sectors.

As business leaders, we must ensure transparency and action around climate-related risks and opportunities.

We affirm our support for the voluntary recommendations of the Financial Stability Board's (FSB) Task Force on Climate-related Financial Disclosures (TCFD).

We encourage other business leaders to join us in improving disclosure across sectors and regions. These disclosures are an important step forward in enabling market forces to drive efficient allocation of capital and supporting a smooth transition to a low-carbon economy.

We are proud to support better disclosure of climate-related risks and opportunities and we urge other business leaders to do the same.

You can do so by:

- Joining the TCFD's existing list of supporters
- Issuing your own statement of support on your company's website and linked back to the TCFD website
- Provide a supportive quote to be added to the TCFD website



INTERNATIONAL
RiverFoundation

The International RiverFoundation

The International RiverFoundation builds river leadership and strong networks for the restoration, protection, sustainable management and resilience of the world's rivers.



Leadership

We support and champion future leaders and early-career professionals to develop their knowledge, skills, and experiences in sustainably managing the world's rivers.



Celebration

We celebrate, recognise and reward individuals and organisations who have achieved remarkable outcomes for rivers, basins and communities.



Collaboration

We facilitate cross-sector collaboration through partnerships and on-ground projects, and help them share their knowledge with those who could benefit from it.

Build River Leaders



Emerging
Water
Professionals
Program
(DFAT)



Emerging River
Leadership Award

Vera Thies
Fellowship for
Women



Ken Thies
Memorial
Scholarship





Foster collaboration and partnerships

RiverTwinning Programs

Riverprize Alumni

River Recovery
Projects (e.g.
OceanaGold Phils)





Share knowledge... celebrate... recognise...



BERT AND VERA THIESS FOUNDATION



Riversymposium location and cycle

- BRISBANE once every 2 years (links with Asia Pacific Cities Summit)
- AUSTRALASIA once every 4 years (Australia/NZ/Pacific Islands)
- INTERNATIONAL once every 4 years

- The International Riverprize
- European Riverprize
- North America Riverprize
- Australasia Riverprize
- Asia Riverprize



THE AUSTRALIAN WATER PARTNERSHIP





2020: China

2021: Brisbane

2022: Vienna

Thank you...Any questions...