



**Flood
Resilience
Alliance**

The Flood Resilience Measurement for Communities (FRMC) Approach

8 June 2021

In partnership
with:



The Alliance in words

We Are:

The Zurich Flood Resilience Alliance is a multi-sectoral partnership focusing on finding practical ways to help communities in developed and developing countries strengthen their resilience to flood risk.

We Believe:

Floods have no negative impact on people's and businesses' ability to thrive.

We Aim to:

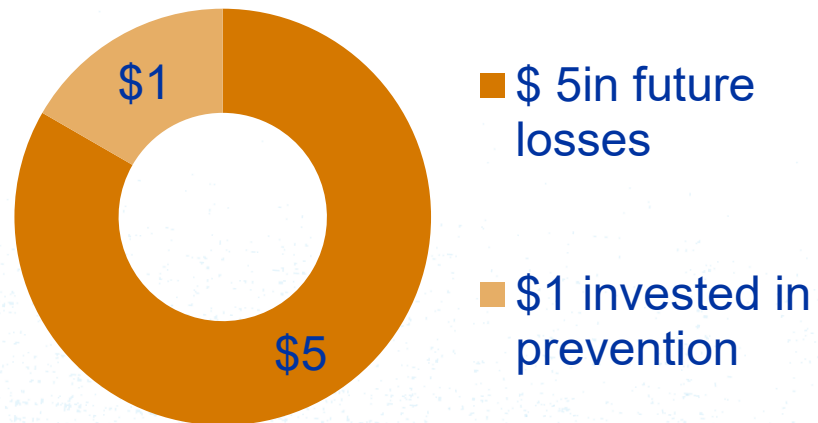
To increase social, political and financial investment in community-based flood resilience-building through public, private and third sector partnerships.

Of all the disasters we face, why focus on floods?

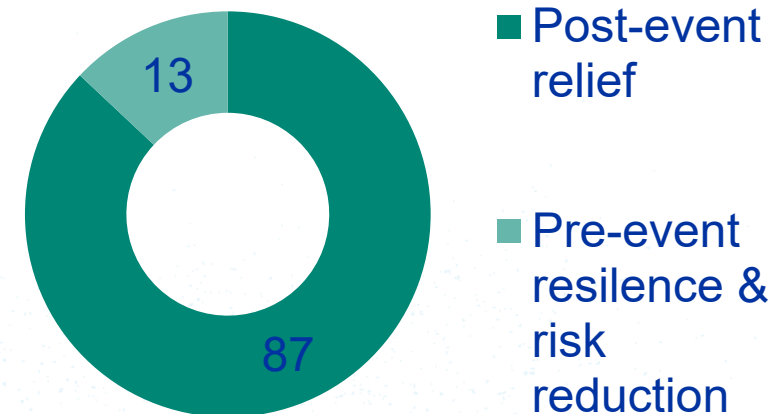


Floods cause the single biggest losses from natural hazards - they account for almost as much as all other losses combined

Why focus on resilience, rather than relief and recovery?



We find: Every \$1 invested in prevention saves \$5 in future losses.



But: Only 13% of spending on aid goes into pre-event resilience & risk reduction, 87% goes to post-event relief.

Why focus our efforts at communities?

Communities are where the impacts of floods are felt most immediately.



Working at the community-level allows us to:

- Take immediate and direct action on flood resilience
- Demonstrate the tangible, positive impact that increasing resilience can have on people's lives
- Create best practices from the ground up to shape and influence policy at a higher level

Why develop a measurement framework?

A recent study (2014) by Thomas Winderl for UNDP reviewed all of the models that are publically available and concluded that:

“no general measurement framework for disaster resilience has been empirically verified yet.”

How Do We Define Resilience?

The ability of a system, community, or society to pursue its social, ecological, and economic development and growth objectives, while managing its disaster risk over time in a mutually reinforcing way



Individual:
Get a degree



Household:
Buy a vehicle



Small business:
Expand production



Community:
Electrify the community



Are the community members going to be able to achieve their goals in their planned timeframes?

The 4Rs of Resilience

Robustness

the ability to
withstand a shock

Redundancy

functional diversity

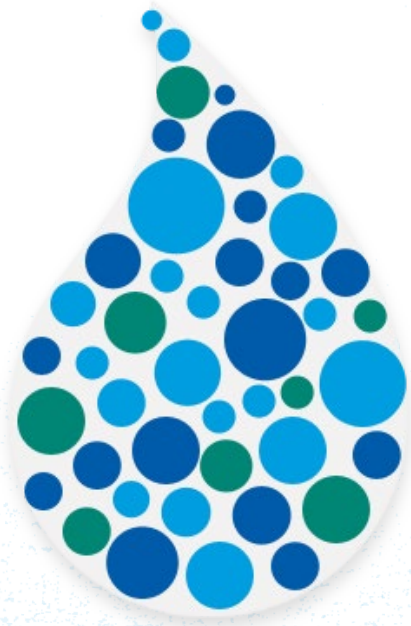
Resourcefulness

the ability to mobilize
when threatened

Rapidity

the ability to contain losses and
recover in a timely manner

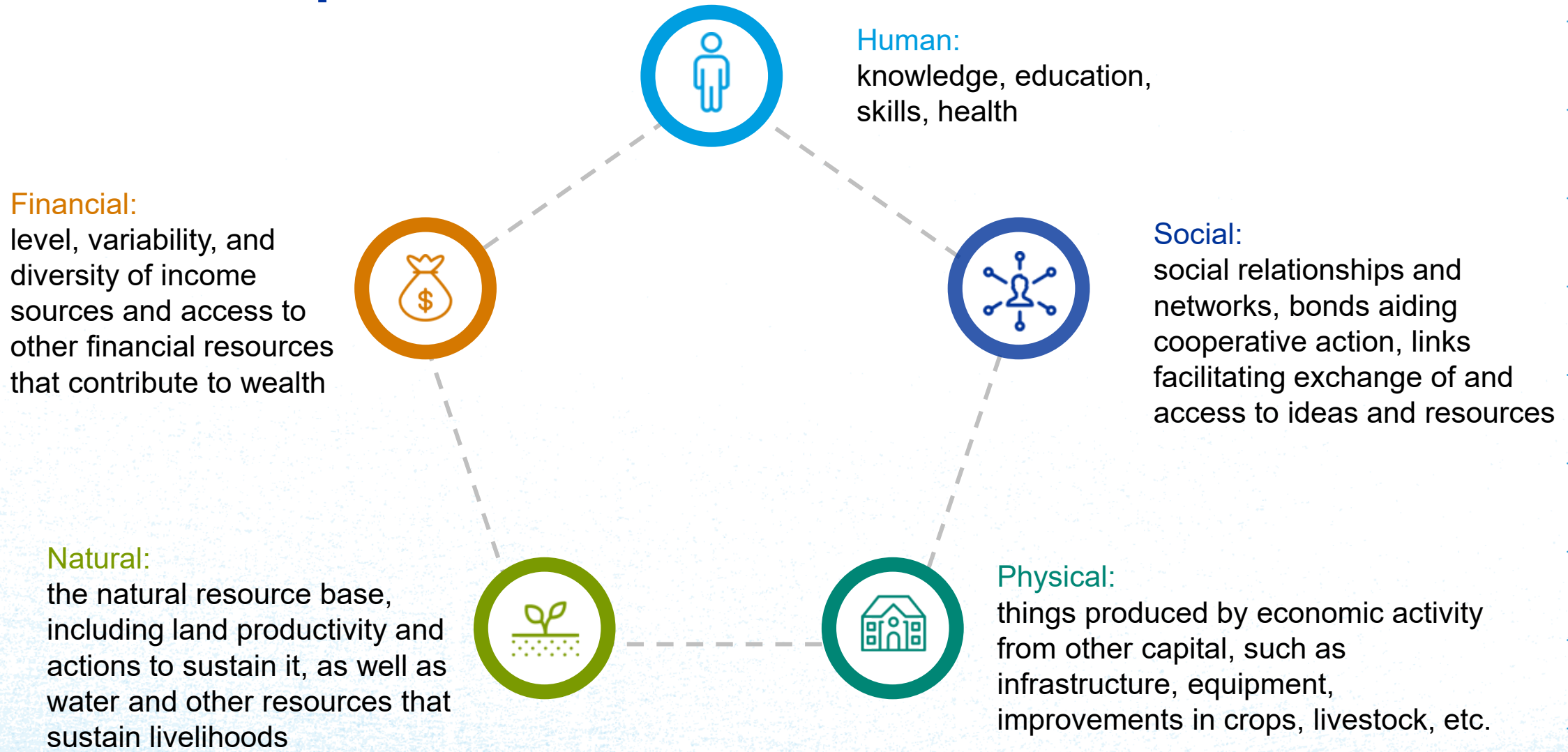
The Sources of Resilience



44 sources defined in the
FRMC framework

- Based on the community's assets and complementary resources that sustain and improve their wellbeing
- Take into account the multiple dimensions of resilience
- Serve as proxies before a flood to measure how a community fares, or how it performs after a flood

The Five Capitals



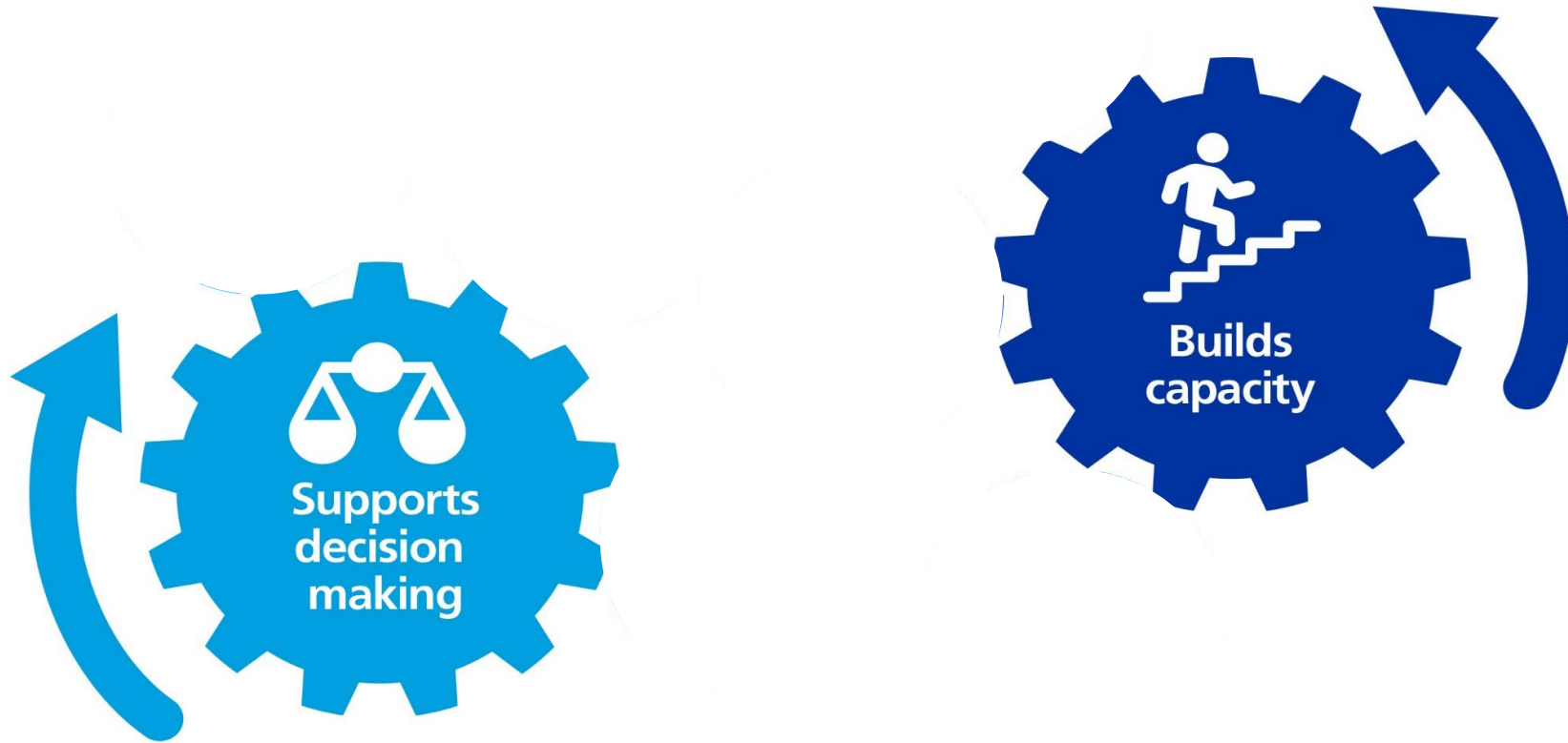
How Do We Grade the Sources of Resilience?

We grade each source based on the quantitative and qualitative data points.



Measurement as a Foundational Approach

Flood Resilience Measurement for Communities...



Voices from the field



Narayan Gyawali
Program Director



Bikram Rana
Program Manager

**Practical
ACTION**



Flood
Resilience
Alliance

Questions?

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Your Opportunity

- Visit our Flood Resilience Portal and download the brochure
- Request a demonstration and discuss how the approach could work for you
- Complete the request form
- E-learning and coaching available to support you in your implementation

Find out more at www.floodresilience.net/frmc_story

Contact us at info@floodresilience.net