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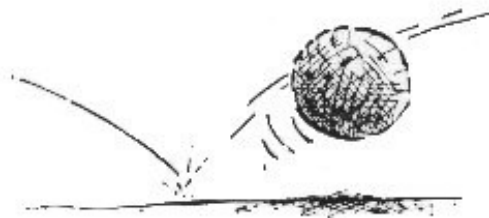


Coastal Community Resilience (CCR)

initiative under the
U.S. Indian Ocean Tsunami Warning
System (US-IOTWS) Program

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Absorb shock

Bounce back

Learning/adaptation



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The Context for Coastal Disasters

- Coastal **populations** dramatically increasing (leading towards more demographic vulnerabilities)
- **Climate change** is anticipated to increase the coastal hazard threat trends (sea level rise, floods, storm – both intensity & frequency)
- New problems of “**mega disasters**” emerging
- Disasters are **undermining years of development** efforts
- Increase in **anthropogenic** and human induced vulnerabilities



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An Increased focus on Community Resilience

The Hyogo Framework for Actions (HFA) -2005-2015 has increased the focus on building community resilience for disaster management



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Defining "Resilience"

"the capacity to survive, adapt and recover from a natural disaster.

(IFRC, 2004)

"the potential of a particular configuration of a system to: maintain its structure/function in the face of disturbance, and the ability of the system to re-organize following disturbance-driven change . . .

(Louis Lebel, 2001)



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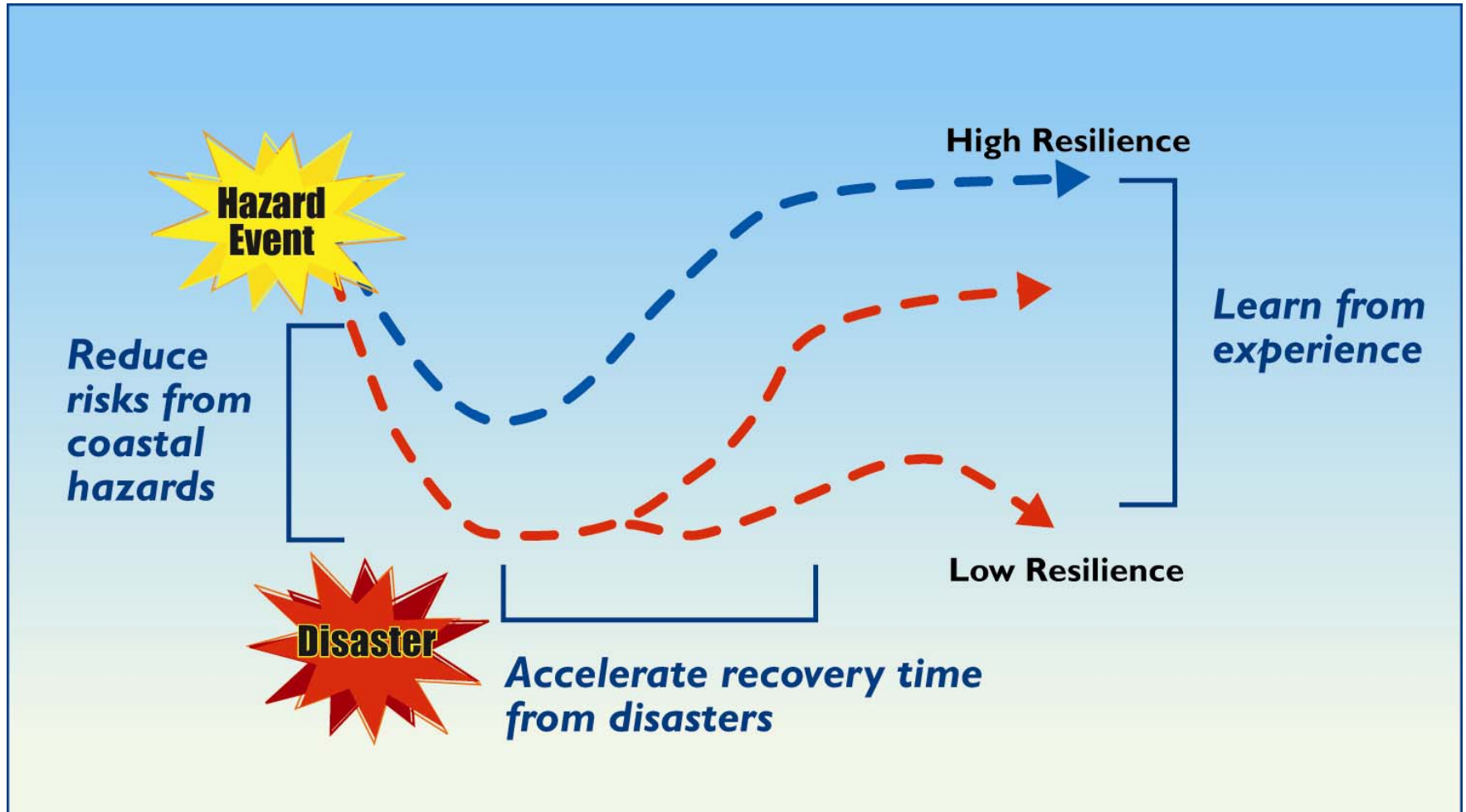
Godschalk (2003)

- **redundancy**
- **diversity**
- **efficiency**
- **autonomy**

- **strength**
- **interdependence**
- **adaptability**
- **collaboration**

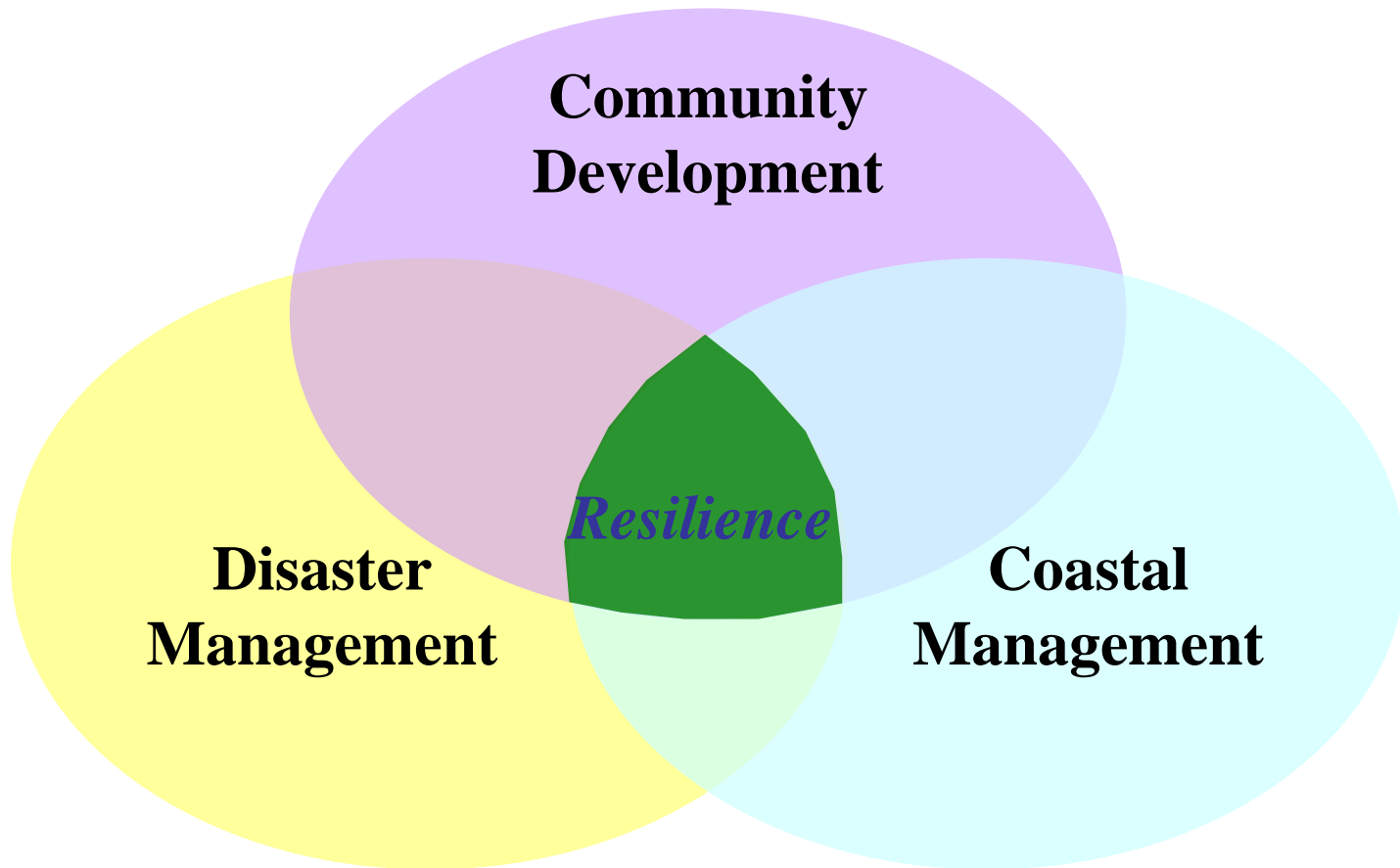


Goals of coastal community resilience





Domains in practice





Elements of Coastal Community Resilience



Governance

- ◆ Leadership, systems, and institutions appropriate to the community that support actions to promote resilience



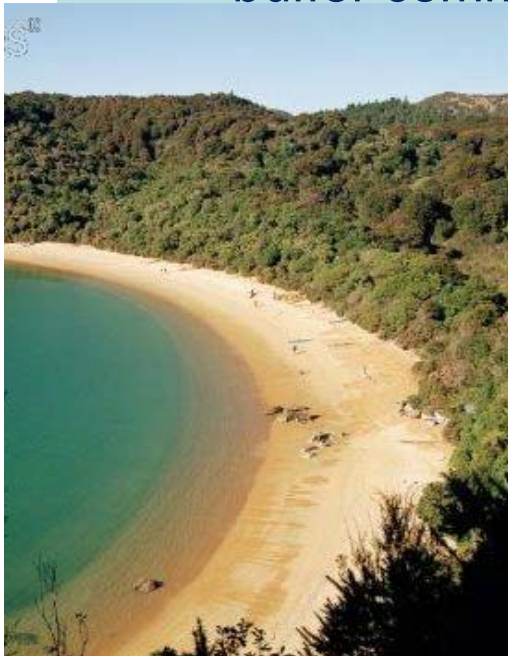
Socio-economy and Livelihoods

- ◆ Prosperous, sustainable, diverse economies and livelihoods that allow communities to help themselves before, during, and after disasters



Coastal Resources Management

- ◆ Active management of renewable resources and protection of habitat and features that sustain those resources and buffer communities from natural disasters





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Land Use Management and Structures

- ◆ Active management of land uses in the community that allow development to be directed away from environmentally sensitive and vulnerable areas





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- ◆ Zoning, building codes, and infrastructure development guidelines that reduce exposure to coastal natural disaster risks



Risks Knowledge

- ◆ An understanding of risks from coastal natural disasters a community faces and its vulnerability to disasters



Warning and Evacuation

- ◆ Ability to receive alerts and notifications of coastal hazards and to warn and evacuate at-risk populations



Emergency Response and Disaster Recovery

- ◆ Ability of community to mobilize to manage coastal disasters with minimal dependence on outside assistance
- ◆ Ability of a community to manage post-disaster assistance



Components of the CCR System

**Implementation
& Monitoring**

Resilience Benchmarks & Assessment

- **Strengths**
- **Weaknesses**
- **Unknowns**

Phased Action Plan

**Resource &
Opportunity
Evaluation**

**Gaps &
Priority
Identification**

Resilience Scoring

4
3
2
1
0

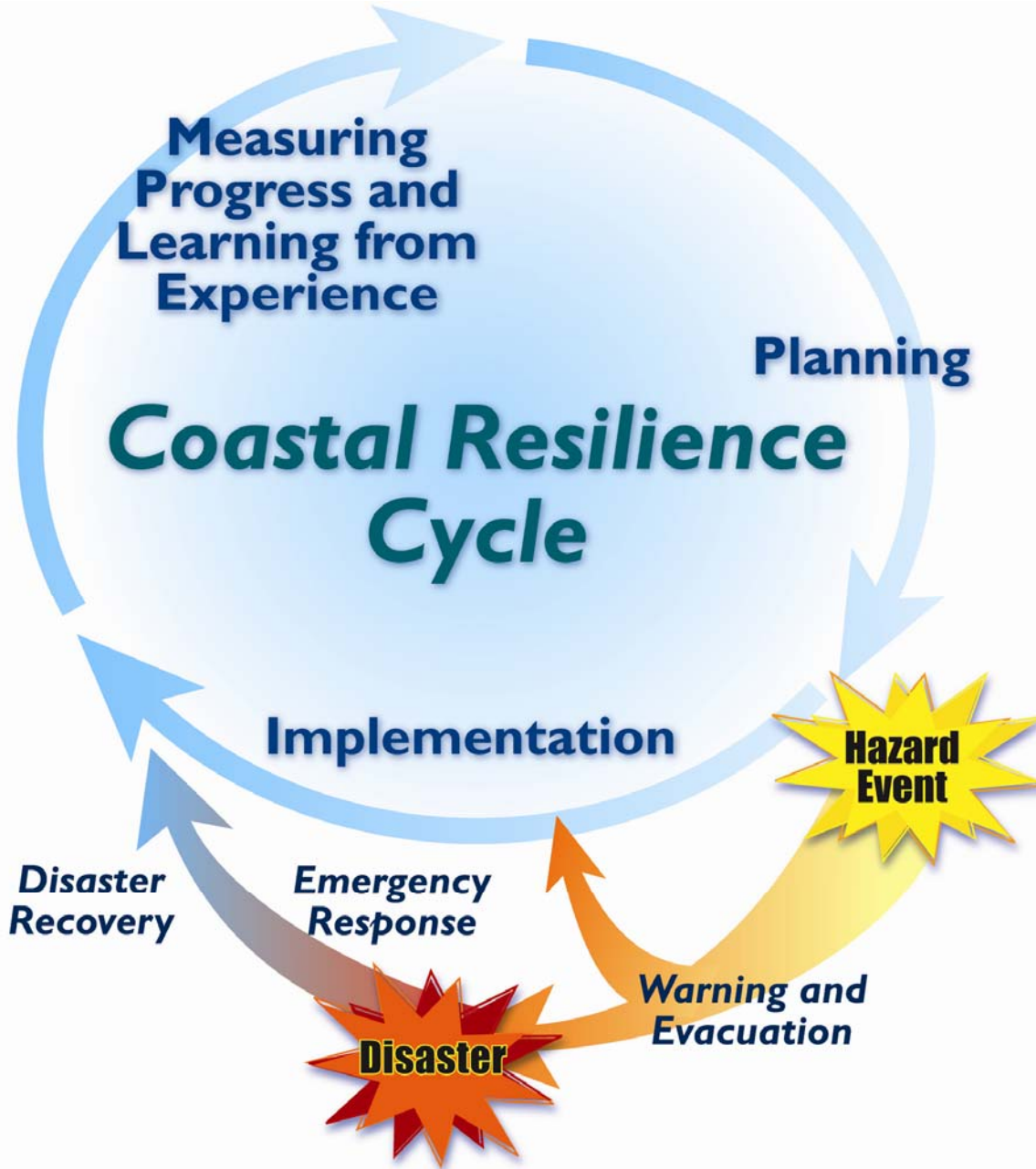


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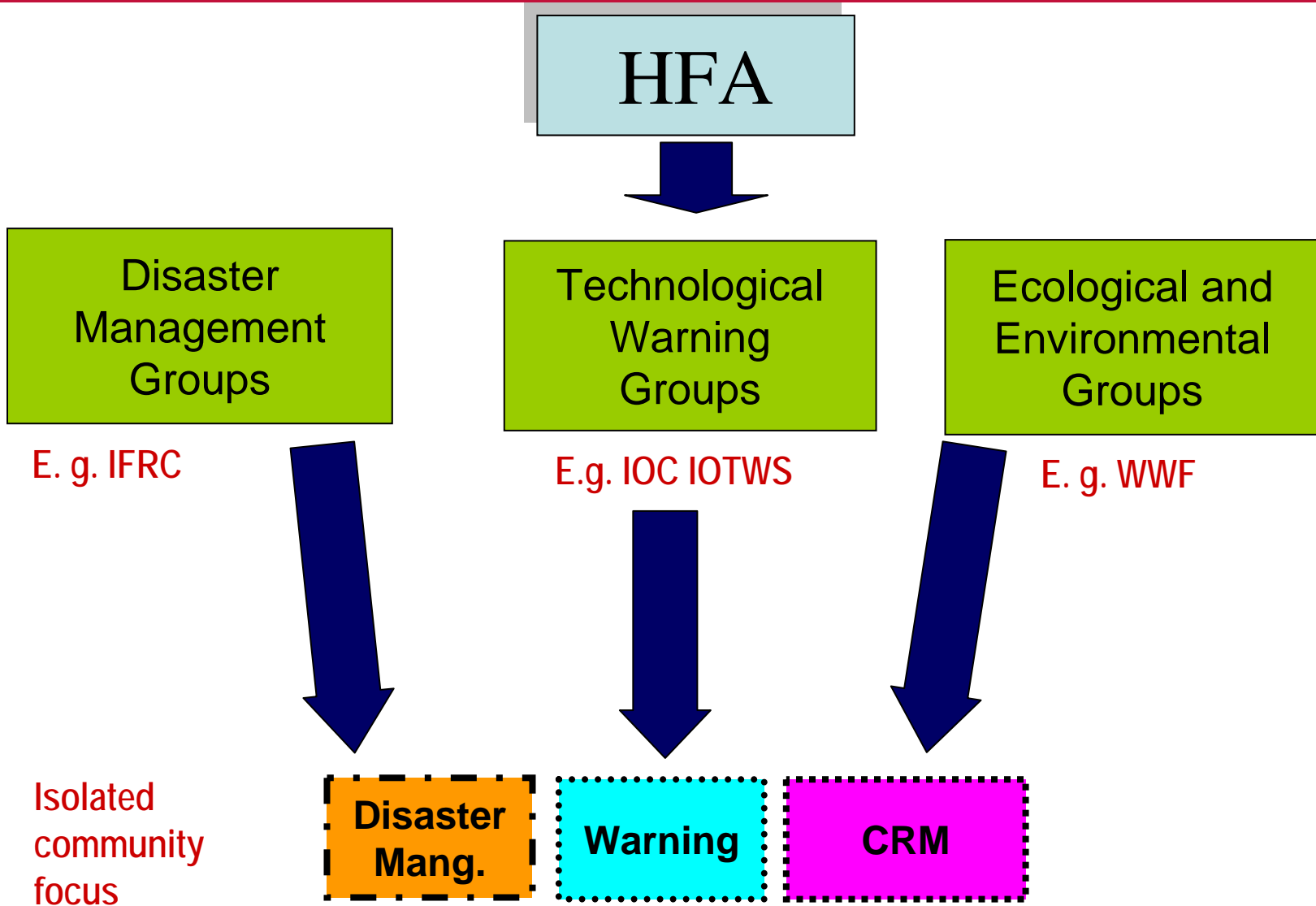


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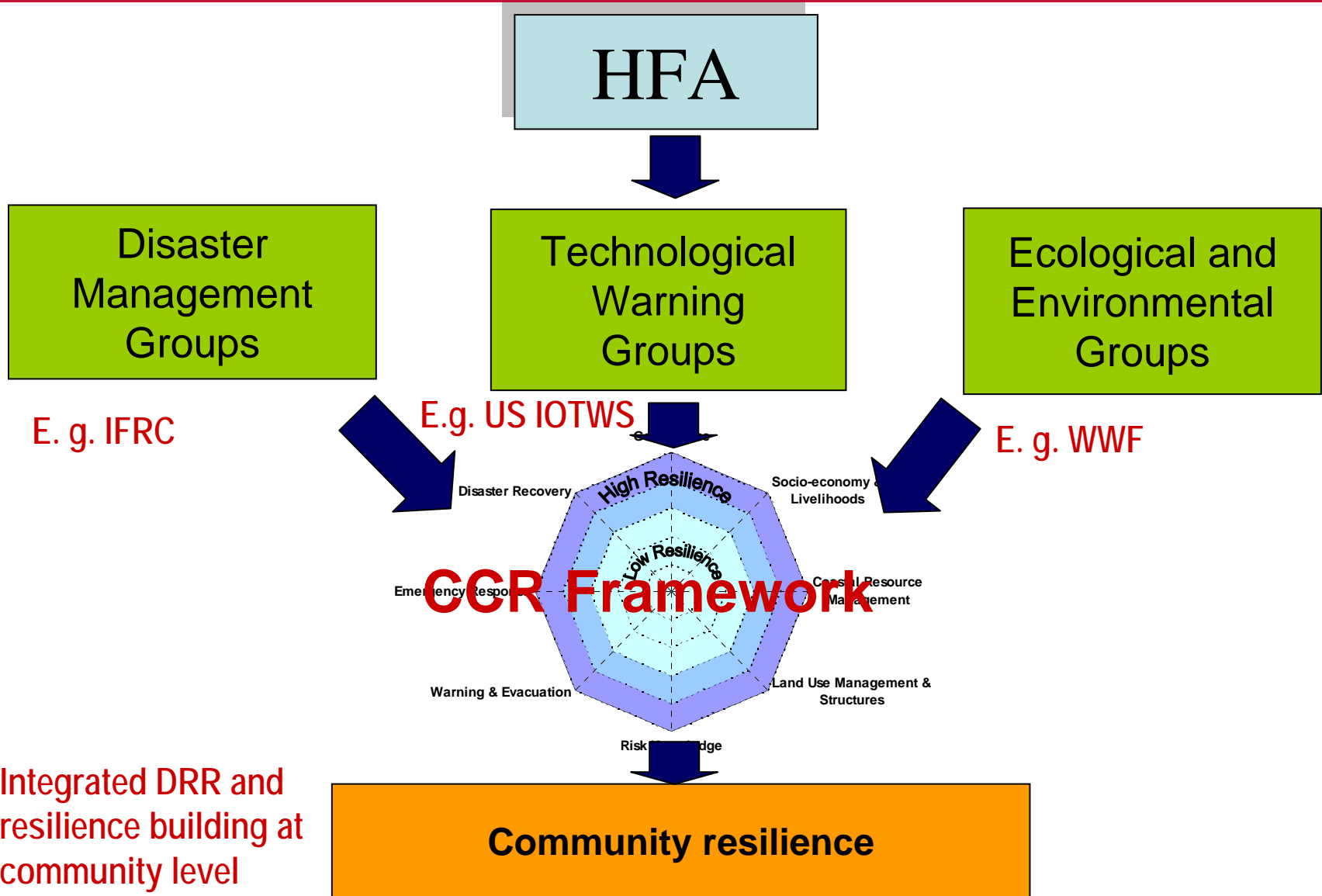


An enabling environment for resilience

Old Model



Ideal State





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Evolving CCR initiatives....

Regional workshop

Concept development

National workshops and partnering

Indonesia - September, 2006.

Sri Lanka – October, 2006.

Guidebook development

Community level field testing

India (Tamil Nadu) – Nov, 2006

Thailand (Ranong) – Dec, 2006

Training and capacity material development

National training and capacity development of partners

Sri Lanka & Indonesia - Feb-March, 2007.

Capacity development of national partners

Regional workshop and dissemination

Sharing of implementation experiences by the partners



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Thanks!

