



# Adopting a Framework for UNECE ICoE in PPP Specialist Centres to Enable Disaster Recovery and Resilience

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# An Unsustainable Path

- World Bank: From 1970-2013, total estimated disaster losses: \$2.8 Trillion
- According to the National Resources Defense Council, projected yearly disaster losses will triple to 1.5% of global GDP (\$900b/yr) by 2050, (33 years prior-- 2017--total losses globally may top \$750 billion)
- Traditionally, the Public Sector has taken all financial responsibility
- Concentration of population in cities, most of which are on or near coastlines, increases need for resilience investments, disadvantaged populations are particularly vulnerable



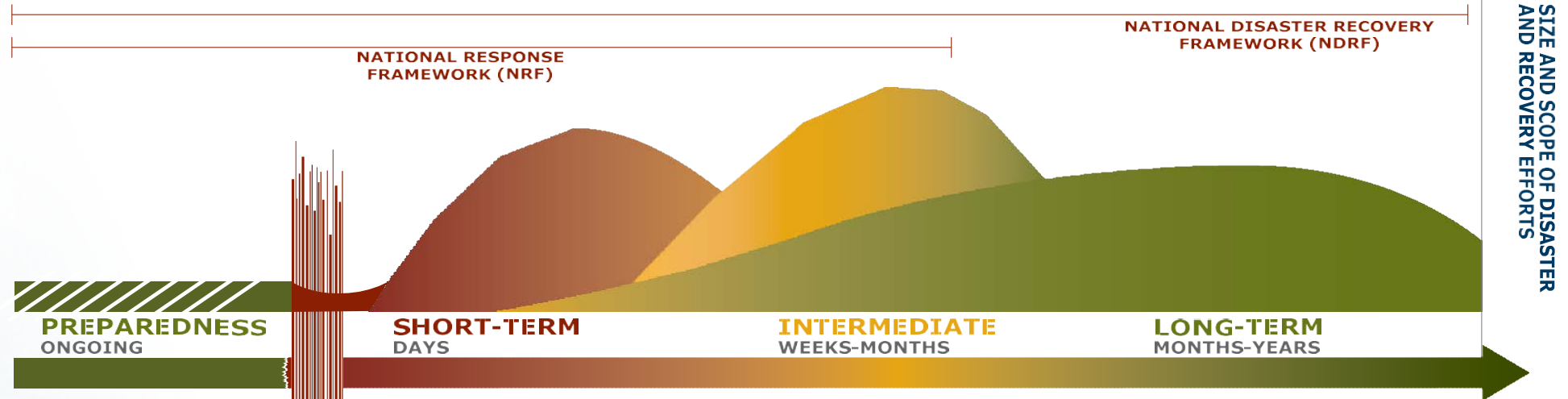
# A Possible Solution-Public Private Partnerships

- Example: New Orleans Hospital
- Massive 1.2mm sq. ft. public hospital flooded, condemned
- Federal and State governments could not afford investments in resilient facility, specifically a super-resilient emergency facility
- Of the 1,170 deaths from Katrina, estimated 520 were in acute medical care prior to the storm
- Construction of new, 450-bed facility with extremely resilient emergency care facility-\$1.1b
- Non-profit health foundation partnered in building, operation

Source	Funding	Source
Federal	\$642m	Recovery Funds
State	\$279m	LSU Med School
Private	\$143m	Children's Health Hospital

# The US Recovery and Resilience Continuum

(U.S. Federal Emergency Management Agency National Disaster Recovery Framework)



**PREPAREDNESS**  
ONGOING

**SHORT-TERM**  
DAYS

**INTERMEDIATE**  
WEEKS-MONTHS

**LONG-TERM**  
MONTHS-YEARS

**DISASTER**

**PRE-DISASTER PREPAREDNESS**  
**Examples include:**

- Pre-disaster recovery planning
- Mitigation planning and implementation
- Community capacity- and resilience-building
- Conducting disaster preparedness excersises
- Partnership building
- Articulating protocols in disaster plans for services to meet the emotional and health care needs of adults and children

**SHORT-TERM RECOVERY**  
**Examples include:**

- Mass Care/Sheltering
  - Provide integrated mass care and emergency services
- Debris
  - Clear primary transportation routes
- Business
  - Establish temporary or interim infrastructure to support business reopenings
  - Reestablish cash flow
- Emotional/Psychological
  - Identify adults and children who benefit from counseling or behavioral health services and begin treatment
- Public Health and Health Care
  - Provide emergency and temporary medical care and establish appropriate surveillance protocols
- Mitigation Activities
  - Assess and understand risks and vulnerabilities

**INTERMEDIATE RECOVERY**  
**Examples include:**

- Housing
  - Provide accessible interim housing solutions
- Debris/Infrastructure
  - Initiate debris removal
  - Plan immediate infrastructure repair and restoration
- Business
  - Support reestablishment of businesses where appropriate
  - Support the establishment of business recovery one-stop centers
- Emotional/Psychological
  - Engage support networks for ongoing care
- Public Health and Health Care
  - Ensure continuity of care through temporary facilities
- Mitigation Activities
  - Inform community members of opportunities to build back stronger

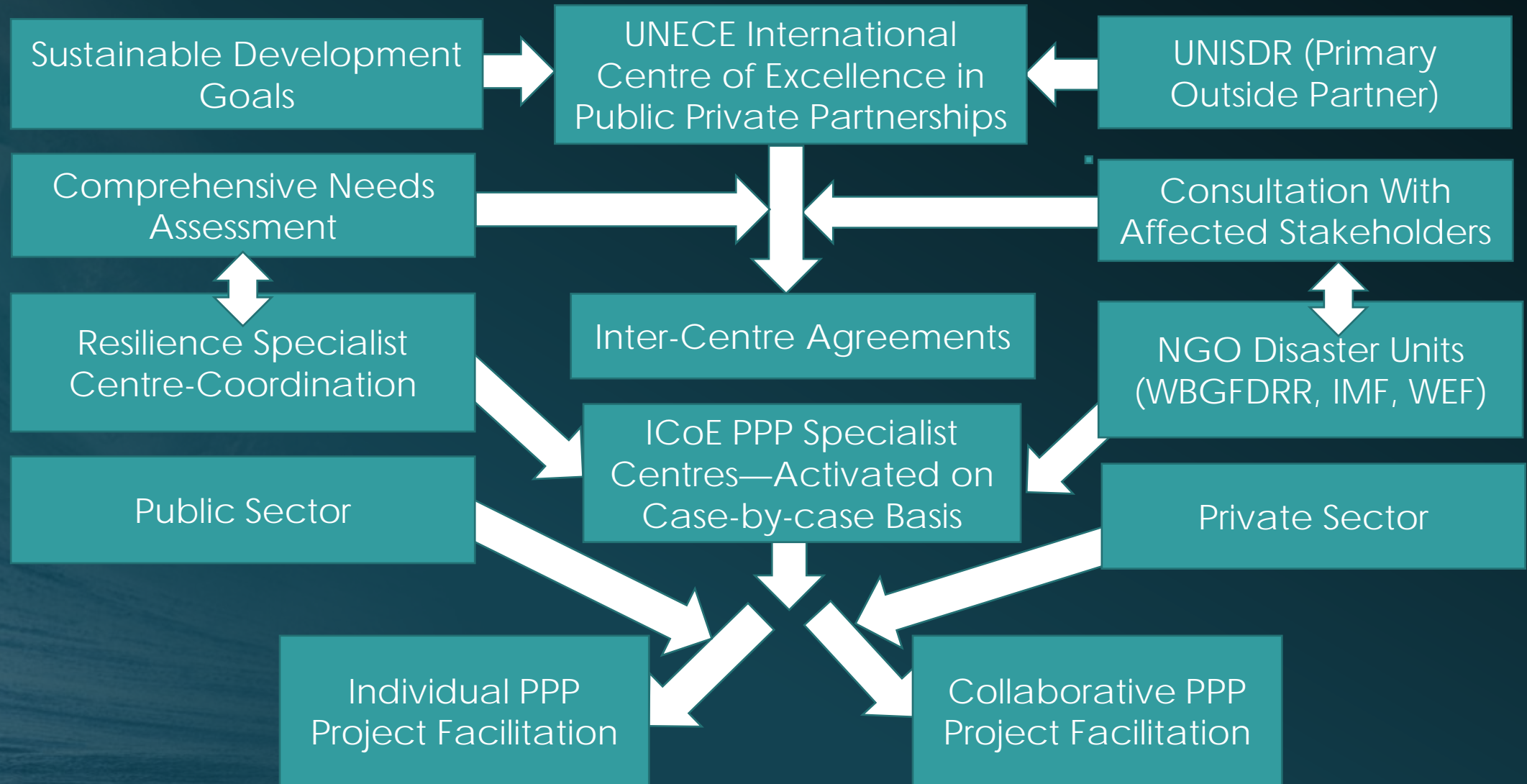
**LONG-TERM RECOVERY**  
**Examples include:**

- Housing
  - Develop permanent housing solutions
- Infrastructure
  - Rebuild infrastructure to meet future community needs
- Business
  - Implement economic revitalization strategies
  - Facilitate funding to business rebuilding
- Emotional/Psychological
  - Follow-up for ongoing counseling, behavioral health, and case management services
- Public Health and Health Care
  - Reestablishment of disrupted health care facilities
- Mitigation Activities
  - Implement mitigation strategies

SIZE AND SCOPE OF DISASTER AND RECOVERY EFFORTS



# Proposed Framework for Specialist Centres to Instigate Recovery and Resilience Projects



# Potential Recovery/Resilience Pilot Projects

- Puerto Rico:

- Power Grid

- Port Expansion (Jones Act)

- Governance and Policy

- Water and Wastewater Facilities

- Roads and Bridges

- Hospitals and Clinics

- Cities-Homes and Businesses

- Mexico City:

- Resilient Reconstruction of City

- Water and Wastewater Repairs

- Streets and Public Spaces

- Infrastructure/Building Standards

- China:

- Power Grid

- Water and Wastewater

- Dams

- Roads and Bridges

- City Repair and Reconstruction

- Flood Resilience Policies/Investment

# Proposed Next Steps/Actions

- ICoE PPP secures approval from UNECE/UN to move forward
- Seek collaborative agreement from UNISDR, WBFDRR, etc.
- Draft and execute Inter-Centre Operating Agreements
- Work with Territory/City/Province representatives to organise
- Seek/develop damage assessments for pilot projects
- Hold virtual meeting to decide which Centres to activate
- Each Centre develops action proposal, supported by IRC
- IRC supports/coordinates, does NOT direct actions of Centres





# UN SDGs, Questions, Decision on Moving Forward

- Directly Impacts Four SDGs, Indirectly Impacts ALL SDGs
  - Goal #3 (healthy lives)
  - Goal #9 (resilient infrastructure)
  - Goal #11 (resilient cities)
  - Goal #16 (inclusive, accessible and effective institutions)

- Questions, Concerns, Further Discussion

- Decision: Go Forward or Not