



International Sustainable Resilience Center

- Bringing the power of Sustainable Resilience to Public Private Partnerships
- Bringing the power of Public Private Partnerships to Sustainable Resilience
- Claiming New Orleans' rightful place as the global hub of resilience and recovery

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
- Traditionally, the Public Sector has taken financial responsibility
 - Public sector budgets increasingly strained by aging & increasing population
- Current Administration expresses support for Public-Private Partnerships
 - Proving return on investment for private sector investments in resilience is critical

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One of 8 Specialist Centers Worldwide under the United Nations Economic Commission for Europe International Center of Excellence (UNECE-ICoePPP)

- In 2009, UNECE establishes Public Private Partnership effort
- Governed by a Team of Specialists in PPP from 64 UN nations
- In 2011, International Center of Excellence in PPP established
- Team of Specialist members saw need for sector specialization
- Beginning in 2010, specialist centers were established in 9 sectors
 - Health, Smart Cities, Governance, Local Government, Public Transportation, Clean Energy, Airports, Ports, Water Management
- Centers focus on development of standards and frameworks for successful PPPs, specific project development guidance, new innovations, and educating public and private on PPP benefits
- In December 2015, Specialist Center in Resilience was Authorized

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UNECE PPP ICoE Specialist Centre in PPP for Disaster Resilience/Recovery (ISRC)

-Located in New Orleans—positioning as a global hub

-Five Major Mission Areas:

1. Documenting/sharing best practices, standards, process
2. Conducting and sharing research on PPP innovations
3. Education and Training
4. A resource for integrating resilience into all other PPPs
5. Consulting on PPP projects

-Currently pursuing two major opportunities:

1. Developing a Return on Investment in Resilience model for UN Global Partnership
2. Integrating sustainable resilience for the 400+public private partnerships for the 88-nation, 5-continent, China-led global Belt and Road infrastructure initiative

Designed to Collaborate

- Resource for Building Resilience into all Public Private Partnerships for all other UNECE-ICoE Specialist Centers
- Consulting on PPP Resilience Projects
- Compliments Resilience Effort and Strategy for New Orleans & Louisiana
- Team with UN and World Bank Disaster Risk Reduction units
- University Partners
 - University of New Orleans, University of Louisiana-Lafayette (US)
 - Toyo University (Japan)
 - James Cook University (Australia)
 - CETYS University (Mexico)





Support of UN Sustainable Development Goals (SDGs); Representing U.S. Engagement and U.S. Interests

- Directly Impacts Four SDGs, Indirectly Impacts ALL SDGs
 - Goal #3 (heathy lives)
 - Goal #9 (resilient infrastructure)
 - Goal #11 (resilient cities)
 - Goal #16 (inclusive, access and effective institutions)
- Puts U.S. at the table in all public private partnership discussions
- Participating in UNECE ICoE Standards Development Process
 - Developing standards for “Last Building Standing” emergency health facility based on success of University Health System New Orleans
- Global standing and opportunities for New Orleans to claim its rightful place as the global hub for the estimated \$80 billion per year disaster resilience and recovery industry



Smart, Resilient, & Sustainable Cities

The intersection of
Public Private
Partnerships, IoT, AI,
and Sustainable
Resilience

International Sustainable
Resilience Center

New Orleans, LA



Data to Information to Action

- The smart city movement has always been about using information to make intelligent decisions and actions
- The sustainable resilience movement has always been about using information to make intelligent decisions and actions
- Making cities smarter also provides a platform for both public and private investments in sustainable resilience
- Example: Vermilion watershed and Lafayette, LA



Setting the Stage for Smart, Resilient Cities

- After 2016 floods, Governor Edwards requested an analysis of watersheds statewide to better understand regional risks
- In Acadiana/Lafayette region, Vermilion River was analyzed
- Determination that water levels be continuously electronically measured and data fed into real-time web-based monitoring system with instant alerts via electronic gauge system
- According to a return on resilient investment model, over \$7 million in loss reduction for \$1.5 million to implement the system
- Invaluable information will also be gathered over time to show changes in overall watershed, improving long-term planning

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Summary: New Orleans and Barcelona

- Barcelona, a pre-eminent smart city and host of the global Smart City Expo, is also home to the Specialist PPP Center on Smart Cities, another of the Centers like ISRC
- The PPP Center on Smart Cities and ISRC pledged to work closely together and have proposed a project to the ICoE
- Smart Cities Center has offered to bring Barcelona officials to New Orleans to share their experience and offer to assist
- Barcelona is also interested in New Orleans' resilience story
- Stage is set for a Smart, Sustainable, Resilient Cities Summit