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**UNISDR ROLE MODEL FOR INCLUSIVE  
RESILIENCE AND TERRITORIAL SAFETY 2015**

**COMMUNITY CHAMPION “KNOWLEDGE FOR  
LIFE” - IDDR2015**

**EU COVENANT OF MAYORS FOR CLIMATE AND  
ENERGY COORDINATOR 2016**

**CITY ALLIANCE BEST PRACTICE “BEYOND  
SDG11” 2018**



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Ministry of  
the Interior and Safety



Incheon  
Metropolitan City

**#WE RESILIENT**

**THE PATH TOWARDS INCLUSIVE RESILIENCE**  
**The Province of Potenza experience**

**K-SAFETY EXPO 2018**

**Experience Sharing Forum:**

**Making Cities Sustainable and Resilient in Korea**  
**Incheon, 16<sup>th</sup> November 2018**

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# Area of interest



REGION: Basilicata (580.000 inh)  
2 Provinces: Potenza and Matera

## PROVINCE OF POTENZA:

- AREA: 6.500 sqkm
- POPULATION: 378.000 inh
- POP. DENSITY: 60 inh/sqkm
- **MUNICIPALITIES: 100**
- CAPITAL CITY: Potenza (67.000 inh)

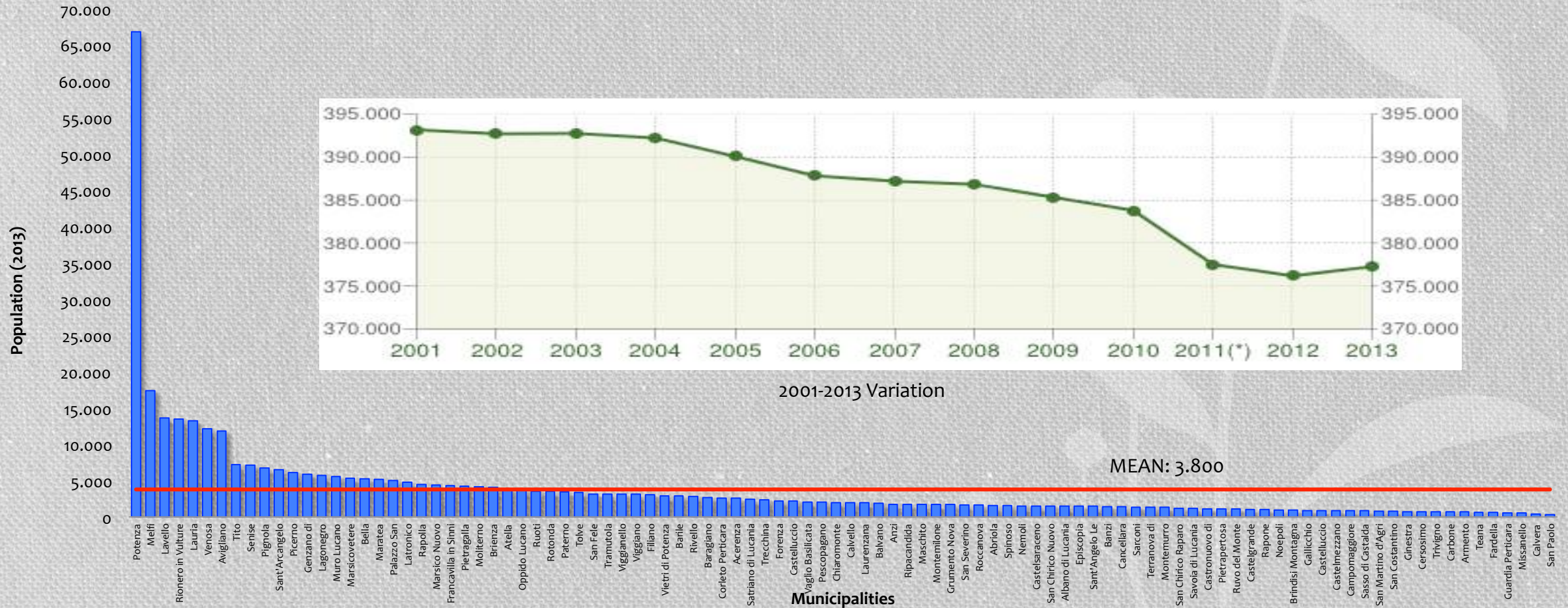
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# Area of interest

- Population distribution



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# Disaster Risk Management and Reduction



Law n. 225 of 1992: establishment of the National Civil Protection **Service**

**HAZARDS, RISK ASSESSMENT**

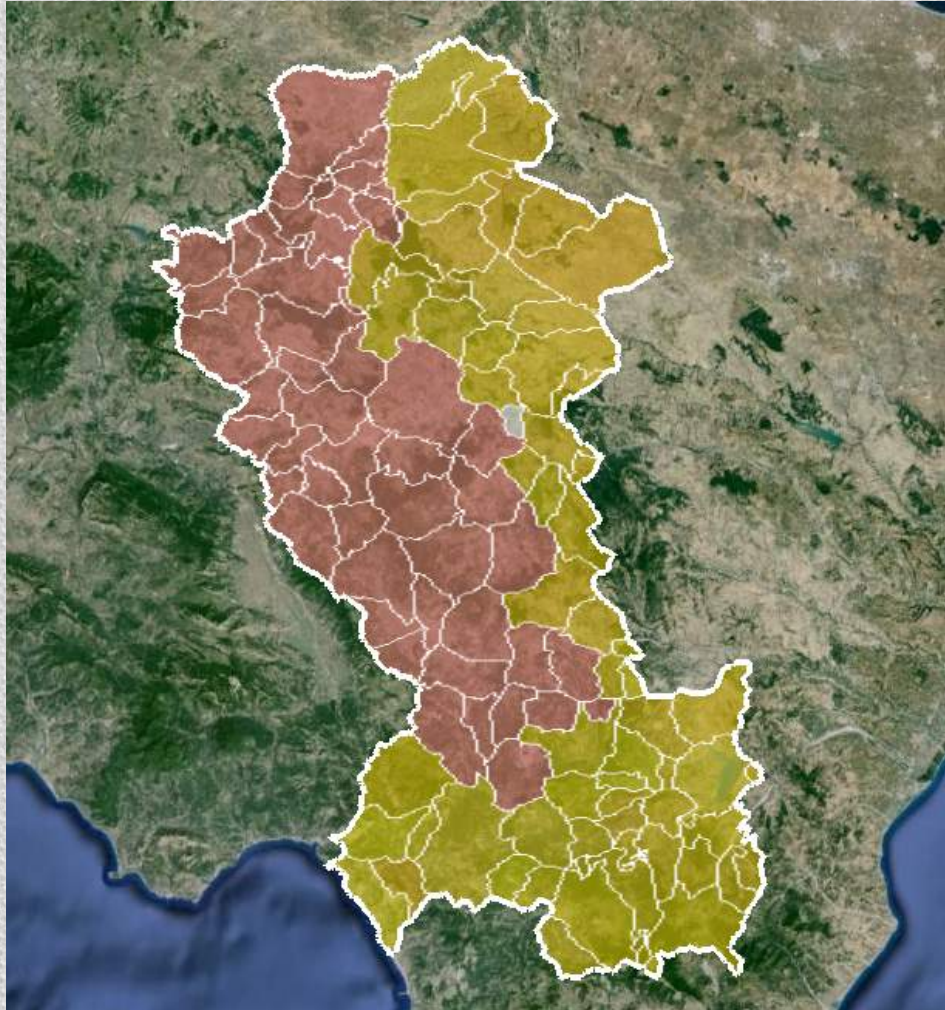
**RISK PREVENTION/MITIGATION, DRR**

**DISASTER MANAGEMENT, PROVINCIAL CIVIL PROTECTION SYSTEM**

**POST DISASTER ACTIONS, RELIEF AND RECOVERY**

# Risk Assessment

## Seismic Hazard Classification



The Italian seismic classification provides for 4 zones:

**Zone 1:** It's the most hazardous area, where **major** earthquakes may occur.

**Zone 2:** Municipalities in this area may be affected by **quite strong** earthquakes.

**Zone 3:** Municipalities in this area may be subject to **moderate** shocks.

**Zone 4:** It is the least hazardous. Municipalities of this area have a **low probability** of seismic damages

Province of Potenza:

**45 Municipalities in Zone 1 (red)**

**55 Municipalities in Zone 2 (yellow)**

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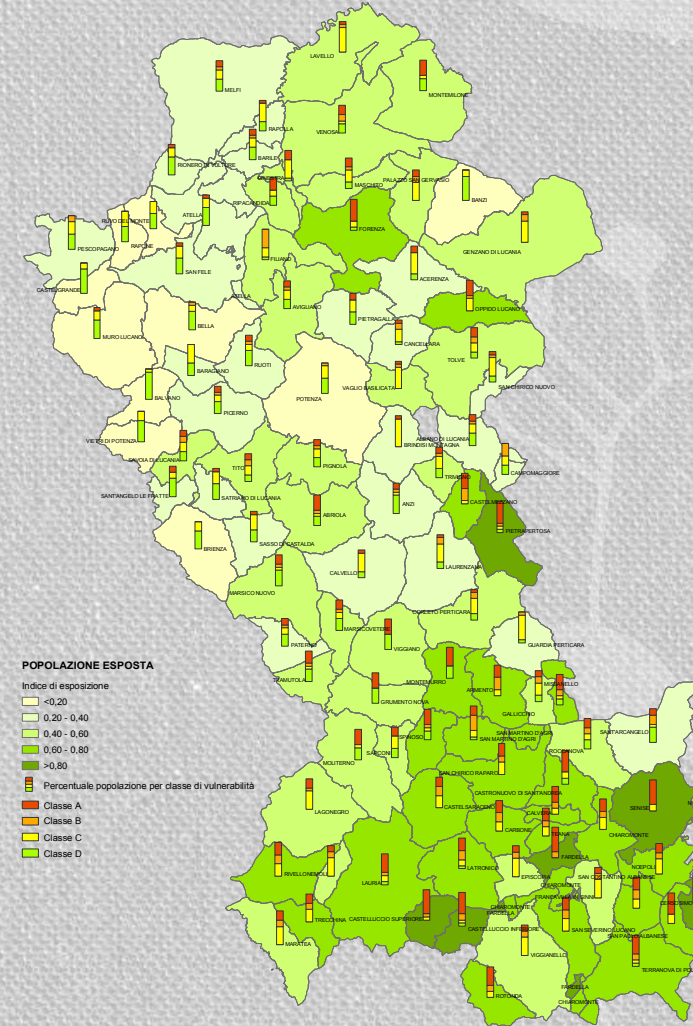
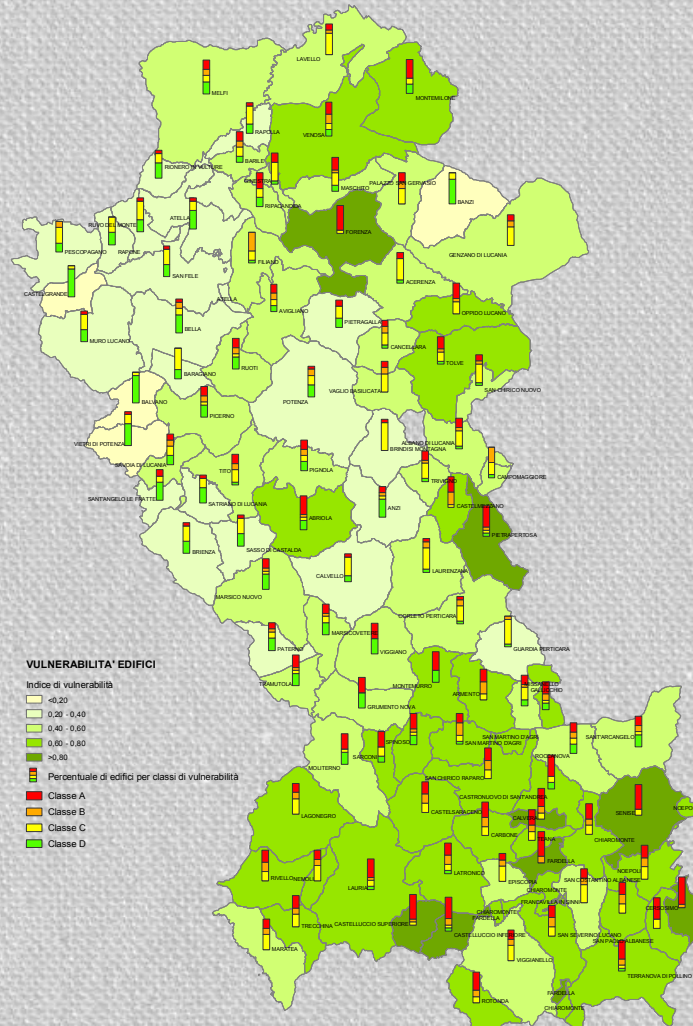
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# Risk Assessment

## Seismic Vulnerability and Exposure



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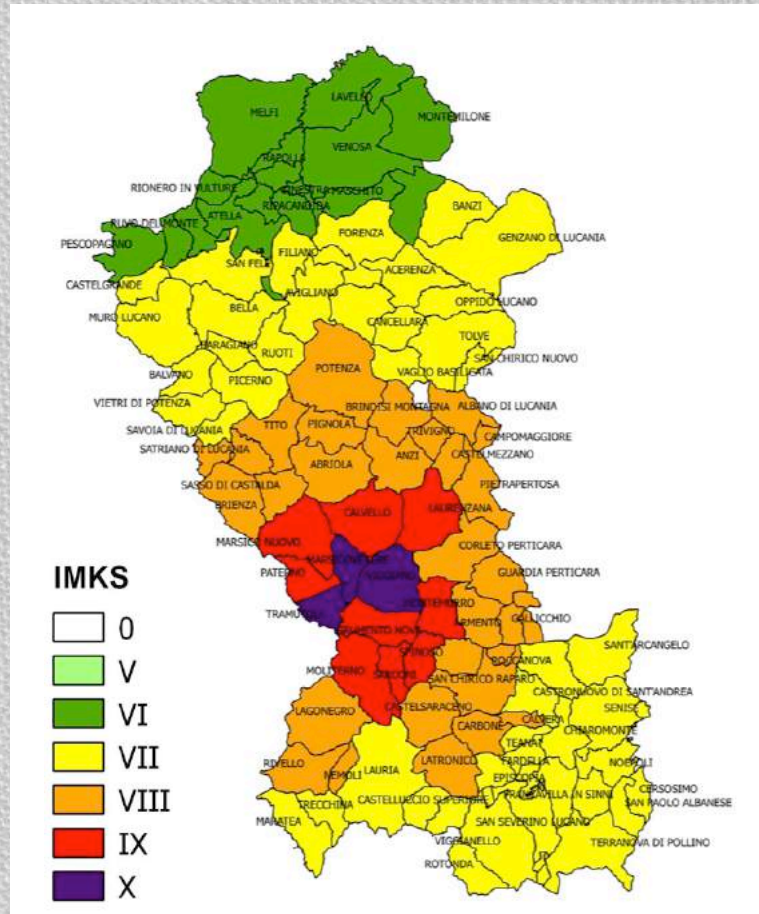
# Risk Assessment Earthquake Simulated Scenarios



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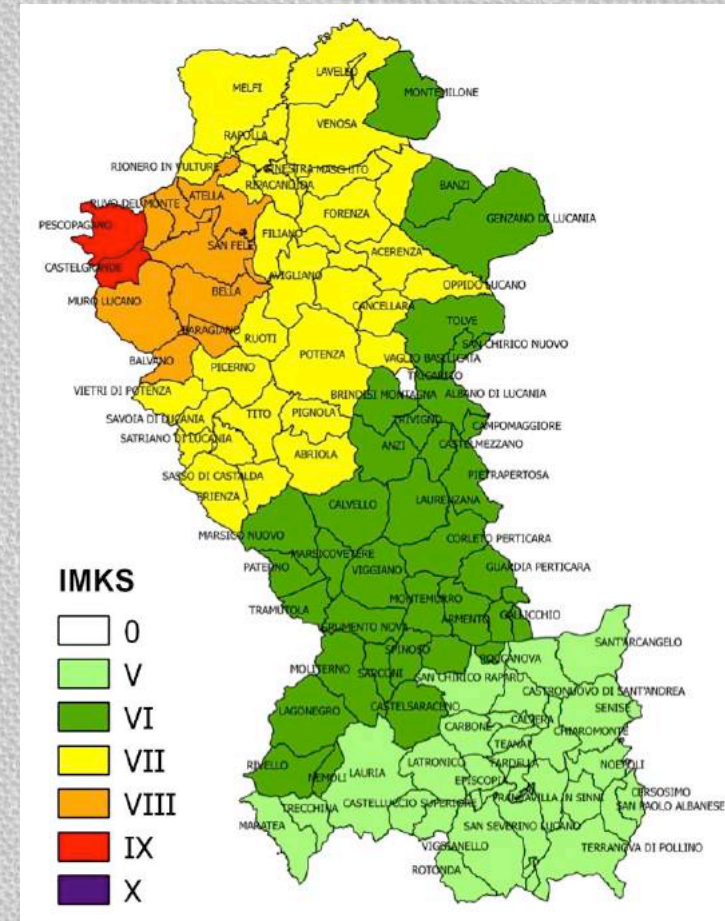
**Hazard x Vulnerability x Exposure → R → Disaster “Scenarios”**

**1857 BASILICATA  
EARTHQUAKE**  
M = 6.8  
Mw = 7.0



1857 Basilicata Earthquake Scenario	
Estimated INJURED	29.749
Estimated HOMELESS	104.349

**1980 IRPINIA  
EARTHQUAKE**  
M = 6.6  
Mw = 6.9



1980 Irpinia Earthquake Scenario	
Estimated INJURED	1.532
Estimated HOMELESS	14.956

Province of Potenza Civil Protection Plan (2004)

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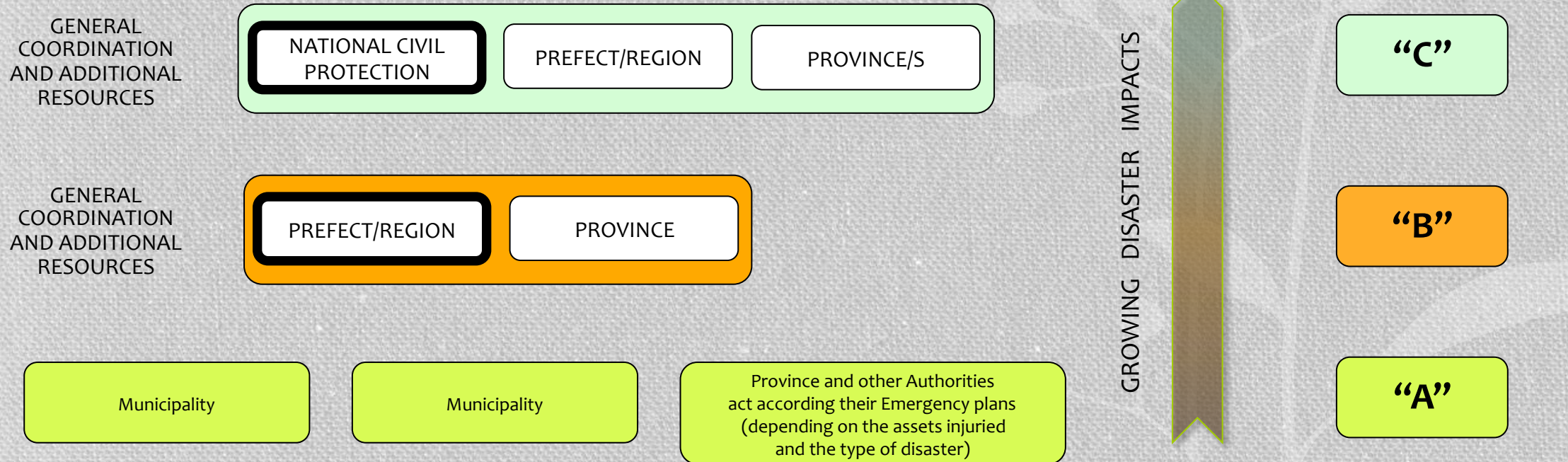
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# Disaster Management



## National/Local Civil Protection System General Operational model for disaster management



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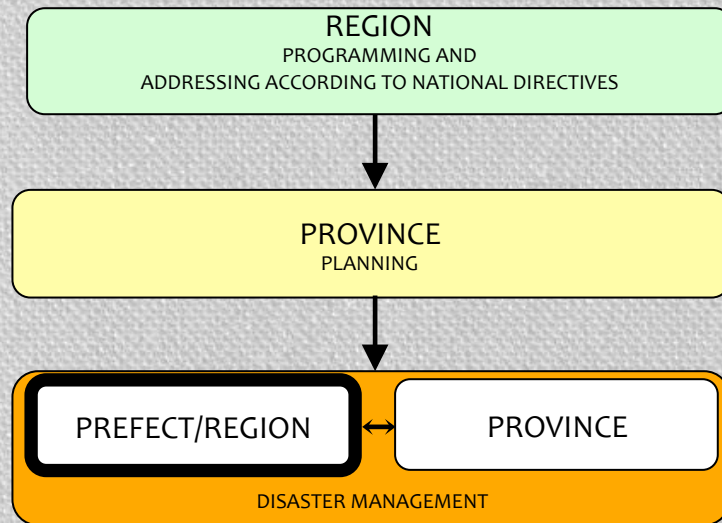
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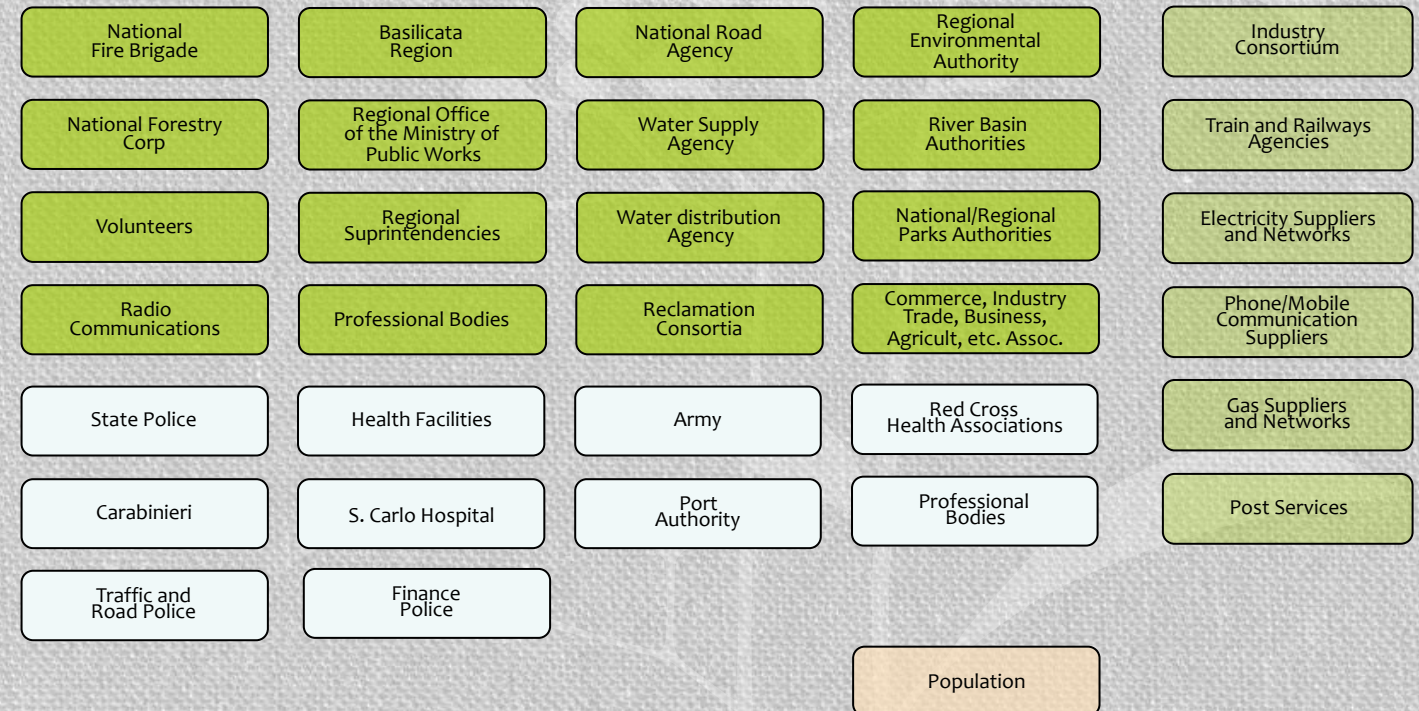
# Disaster Management (Planning for disasters of type “B” and early “C”)



## Local Authorities, Governments



## Other Major Stakeholders

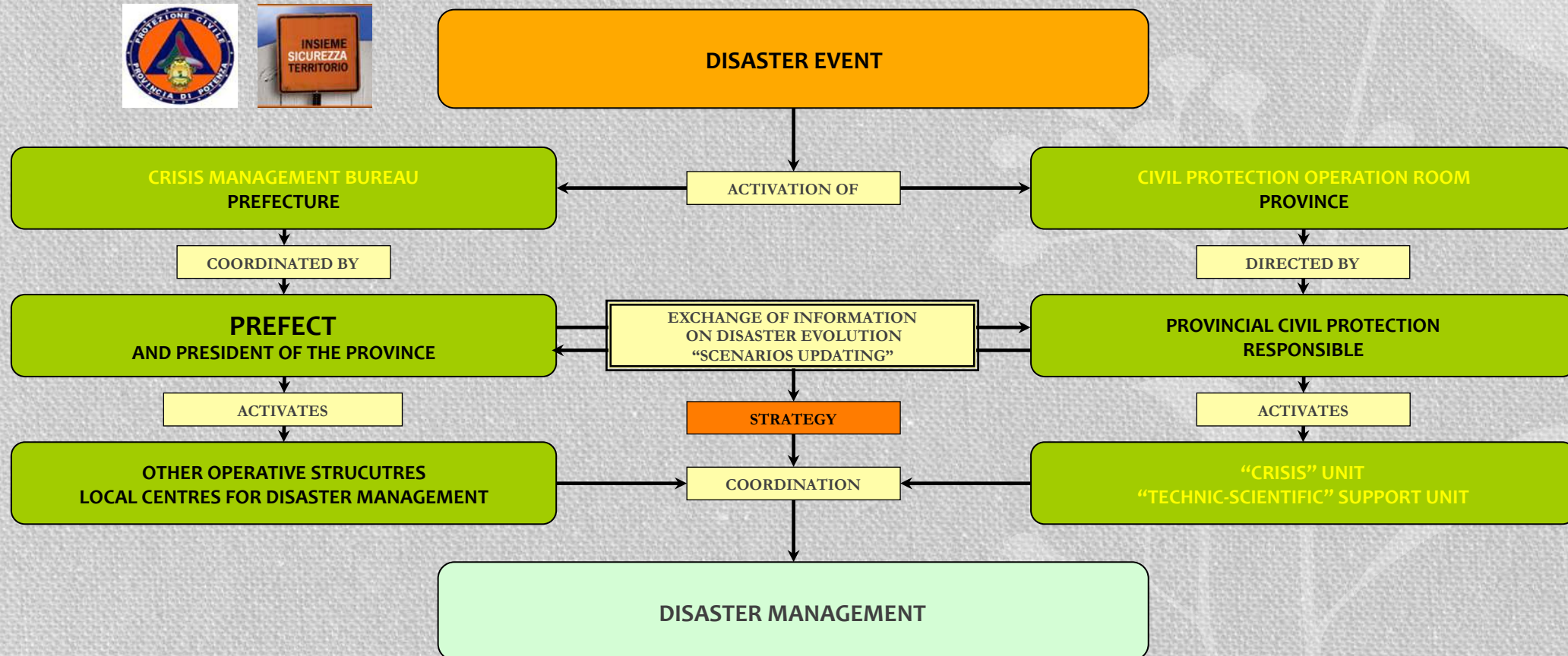


# Disaster Management Organization and Procedures at Provincial Level



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Disasters “B” and early “C” - Province of Potenza Civil Protection Plan (2004 and updates)



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# Disaster Risk Reduction

## Main activities



DRR activities of Province's concern:

- Risk Assessment and monitoring (including early-warning systems)
- Active DRR (prevention, mitigation):
  - In the last decade, several Meuros were invested in:
    - Provincial road network: about 2.700 km
    - High schools building estate: about 80 buildings (the "Safe-Ecological Schools" program)
    - Maintenance and requalification interventions on the hydraulic river network and on the regional forest heritage (in cooperation with the Basilicata Region)
- "Non-structural" DRR (prevention):
  - Preparedness, trainings, information campaigns, drills, participation in interregional cooperation projects (mostly EU co-funded), etc.

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# Strengthening the System and downscaling the Experience to Municipalities



**2004: 1<sup>st</sup> Provincial Civil Protection System** for the Province of Potenza engaging/working with all relevant local/national stakeholders:

Prediction, Prevention, Disaster Management, Post-Disaster Recovery

The System was praised by the National Civil Protection Department and worked as a Model for other Italian Provinces

## AFTER THAT:

- Planning and Management of many regional/national/interregional and EU cooperation projects (investigation of specific Risks and topics)
- Preparedness, trainings, information campaigns, drills, etc.
- Project Management of risk-mitigation interventions (accounted for several M€)
- Participation to major national emergencies
- Provided support (NOT substitution) to Municipalities (on voluntary basis)

difficulties





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# The Vision and the strategy ...



Territorial safety  
+  
Sustainable development  
+  
Climate change  
=  
**#weResilient**

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# ... the Tool (Provincial TCP, 2013): Land Use/Government Policy Coordination

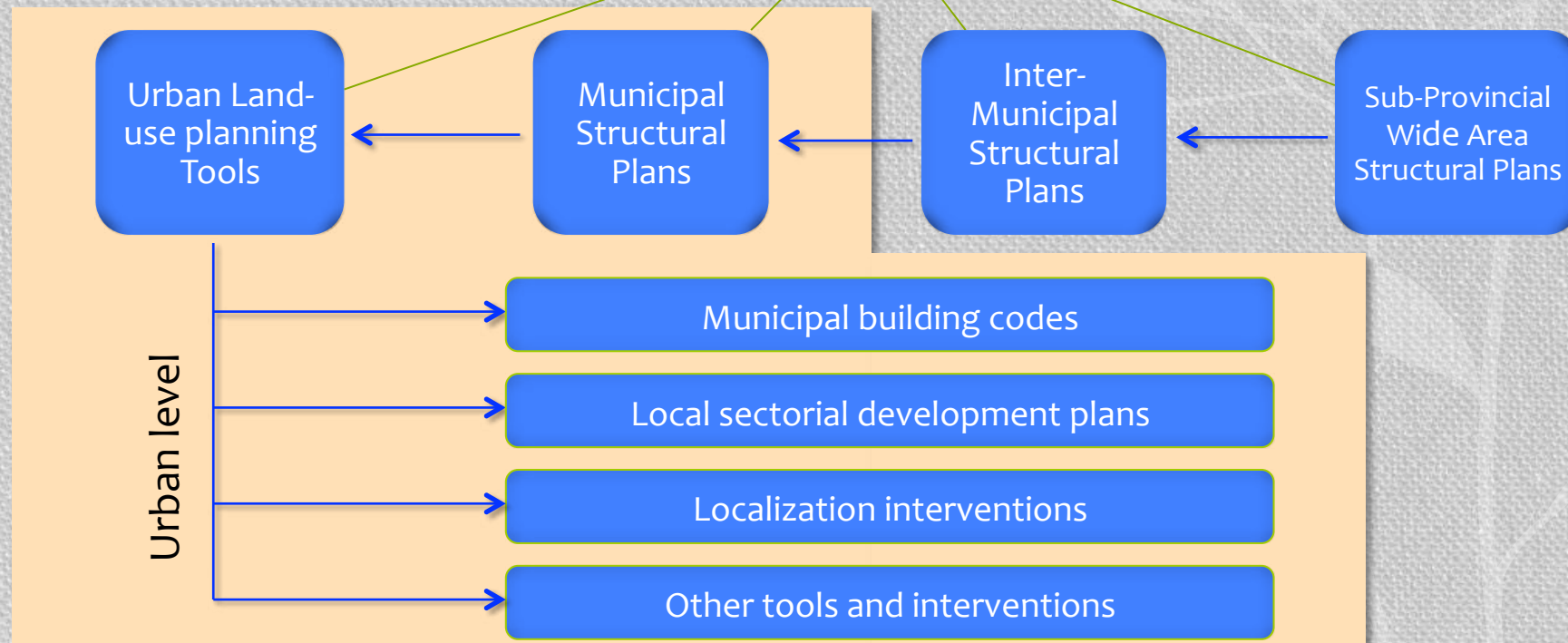


National and Regional Land Use / Government Framework



## Provincial Territorial Coordination Plan TCP (2013)

Directives, Guidelines  
Recommendations, Advices



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# ... the Tool (Provincial TCP, 2013): Land Use/Government Policy Coordination



Strategic and structural **development action-plan** based on extensive **wide-area analysis and programs of governance** interventions on different interacting sectors, including:

- **Environment (Natural, Environmental and Landscape systems)**
- **Settlements and urban structure (urban, *periurban*, suburban, open-land areas)**
- **Relational system**
- **Viability, mobility, transport and other Infrastructures**
- **Energy**
- **Productive sectors (tertiary, agriculture, industry)**
- **Social, cultural, etc. systems**
- **Territorial data collection and organization (GIS)**

**Transversal factors: Territorial Safety (DRR+CCA+CCM) and Sustainability (SDGs) → Resilience**

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# MCR Campaign as a guidance and tool

## Down-scaling policies into actions at City level



Sendai Framework for Disaster Risk Reduction  
2015 - 2030



**11 SUSTAINABLE CITIES AND COMMUNITIES**



<p><b>1 NO POVERTY</b></p>	<p><b>2 NO HUNGER</b></p>	<p><b>3 GOOD HEALTH</b></p>	<p><b>4 QUALITY EDUCATION</b></p>	<p><b>5 GENDER EQUALITY</b></p>	<p><b>6 CLEAN WATER AND SANITATION</b></p>
<p><b>7 RENEWABLE ENERGY</b></p>	<p><b>8 GOOD JOBS AND ECONOMIC GROWTH</b></p>	<p><b>9 INNOVATION AND INFRASTRUCTURE</b></p>	<p><b>10 REDUCED INEQUALITIES</b></p>	<p><b>11 SUSTAINABLE CITIES AND COMMUNITIES</b></p>	<p><b>12 RESPONSIBLE CONSUMPTION</b></p>
<p><b>13 CLIMATE ACTION</b></p>	<p><b>14 LIFE BELOW WATER</b></p>	<p><b>15 LIFE ON LAND</b></p>	<p><b>16 PEACE AND JUSTICE</b></p>	<p><b>17 PARTNERSHIPS FOR THE GOALS</b></p>	<p><b>THE GLOBAL GOALS</b> For Sustainable Development</p>

UNITED NATIONS  
**PARIS CLIMATE AGREEMENT**  
SIGNING CEREMONY  
— 22 APRIL 2016 —

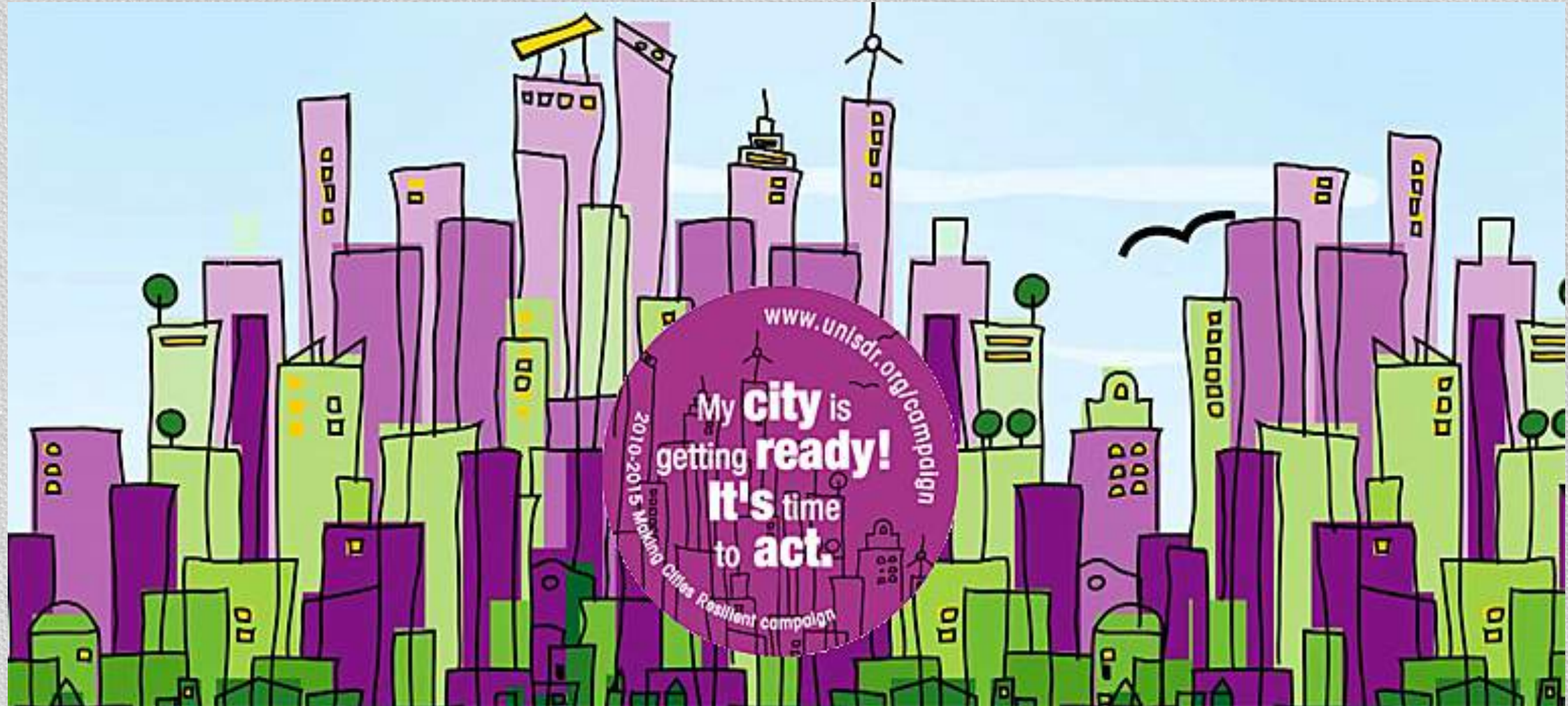


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# MCR Campaign as a guidance and tool Down-scaling policies into actions at City level



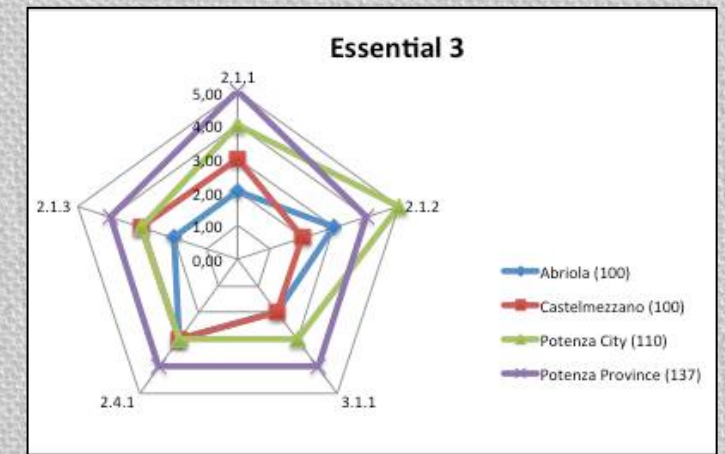
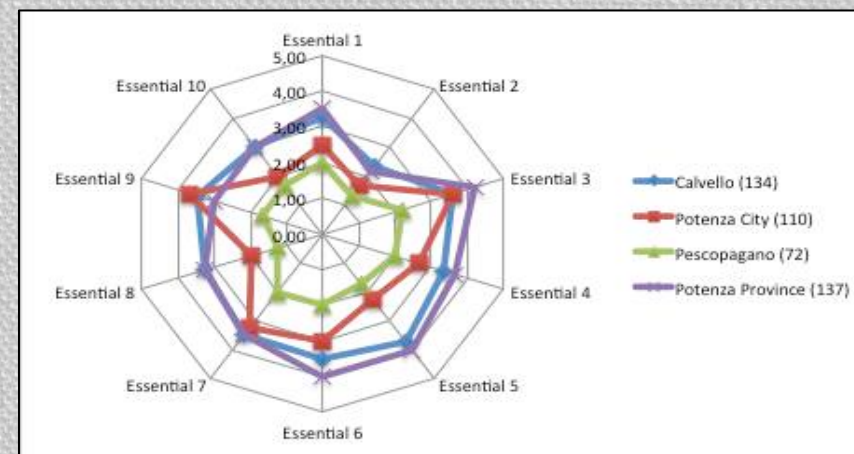
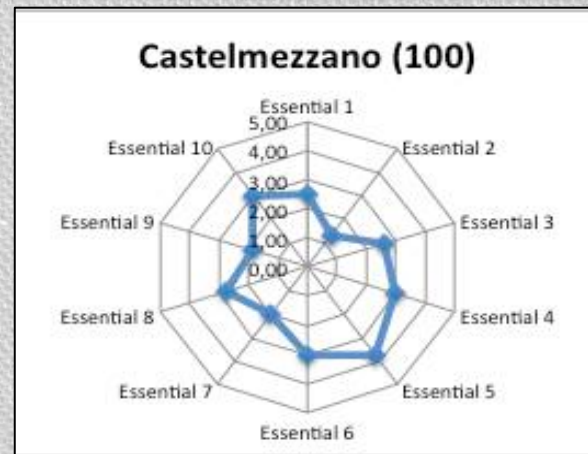
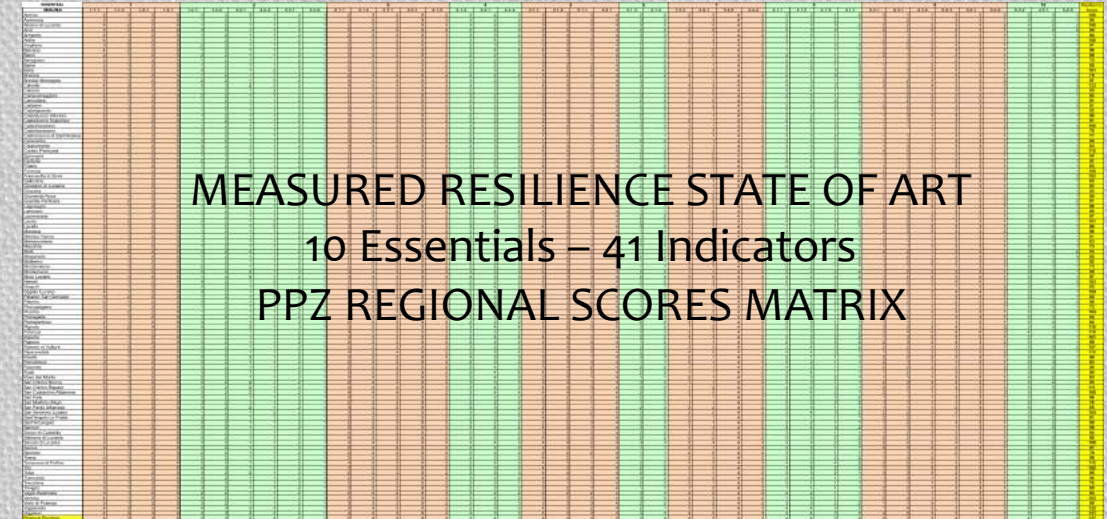
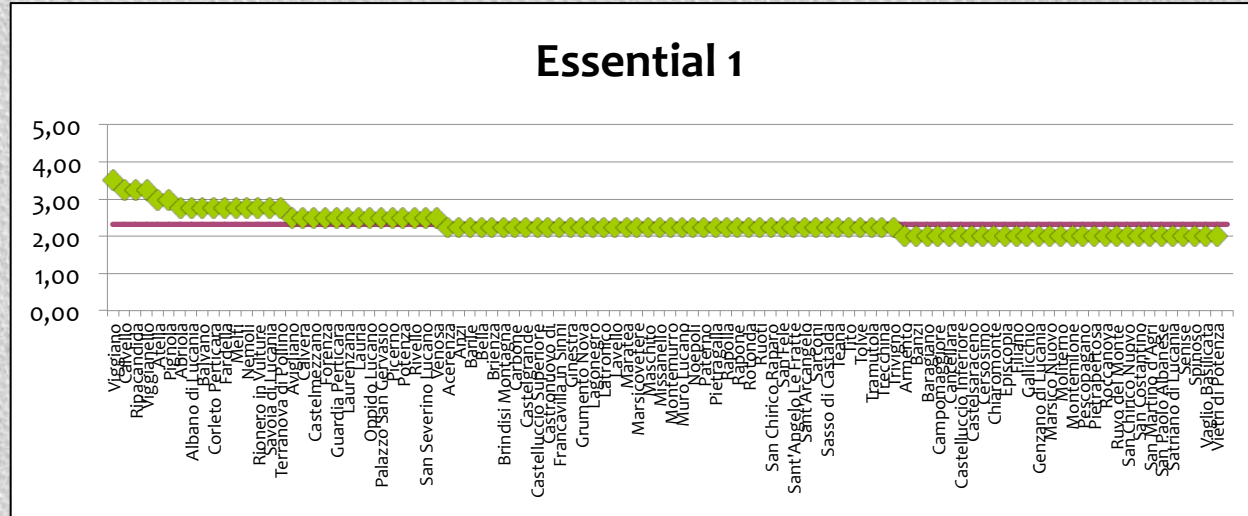
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# MCR Campaign as a guidance and tool

## The Assessments (10 essentials; 41 indicators)



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# MCR Campaign as a guidance and tool Assessments' Outputs → Defining the Gaps



## **Essential 1: Put in place organization and coordination**

- Participation of citizen groups and civil society. Build local alliances (Mostly CP Volunteers)

## **Essential 2: Assign a budget**

- Assign a specific budget for disaster risk reduction. Provide incentives (mostly after Disasters)

## **Essential 3: Up-to-date data on hazards and vulnerability**

- Maintain up-to-date data. Risk assessment in urban level plans and decisions

## **Essential 4: Invest and maintain critical infrastructures**

- Investment in maintenance of critical infrastructure (critical for financial problems)

## **Essential 5: Schools and health facilities**

- Assessment only by law (critical for financial problems)

## **Essential 6: Risk compliant building regulations and land use planning principles**

- Moderate risk compliant land use planning (Mostly they are referred to DM activities)

## **Essential 7: Ensure education programs and training**

- Few direct programs and training on disaster risk reduction (Mostly higher level initiatives)

## **Essential 8: Protect ecosystems and natural buffers**

- Few direct actions (Mostly National, Regional and Provincial actions)

## **Essential 9: Install early warning systems, city's DM capacities, drills**

- Few direct actions (Mostly National, Regional and Provincial actions)

## **Essential 10: After any disaster, ensure the needs of the survivors for reconstruction**

- Very critical at the municipal level

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# MCR Campaign as a guidance and tool Assessments' Outputs → Implementation Strategy



**Existing Gaps/Barriers  
at City level**

**Barriers, Lacks, main problems**



**Identified solutions →**

**Inputs for the Strategy**

# MCR Campaign as a guidance and tool Assessments' Outputs → Implementation Strategy



## Existing Gaps/Barriers at Municipal level

Low Public support – Political will

Low Dialogue with and within stakeholders

Small-sized Municipalities

*Urban structure unfit to cope with Disasters and Climate Changes injuries*

*High urban and Communities sprawl*

Lack of Information (including data)

Lack of Resources

Lack of Skills and capacities

Low Community engagement in Decision Making

Lack of Public Awareness



## Identified solutions → Inputs for the Strategy

*Act on a “structural” channel: Land-Use and Government Policy Coordination*

Engage/Involve

Provide Support/Cooperation

Entrust/Empower and facilitate dialogues with stakeholders

Build partnerships/share experiences

Collect and facilitate data circulation (example: GIS)

Attract Private Business (\$\$\$): PPP/PPPP

Enhance capacities

Progressively Engage Civil Society in Decision Making

Enhance Public awareness

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# Boosting political leadership Subsidiary **networking** for building local Resilience



## #weResilient: Municipalities' Network for Resilience



## #weResilient: Communities' Network for Resilience

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# Boosting political leadership Exchanging & Advocating



Partnerships with cities/countries in transnational cooperation – SFDRR target e)



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# Boosting political leadership Championing



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# Implementing



1. The “Institutional” channel (by law and regulations)
2. The strategic “Subsidiary” approach



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# Implementing: Improving Governance



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**engaging communities:  
from participation  
to ownership**

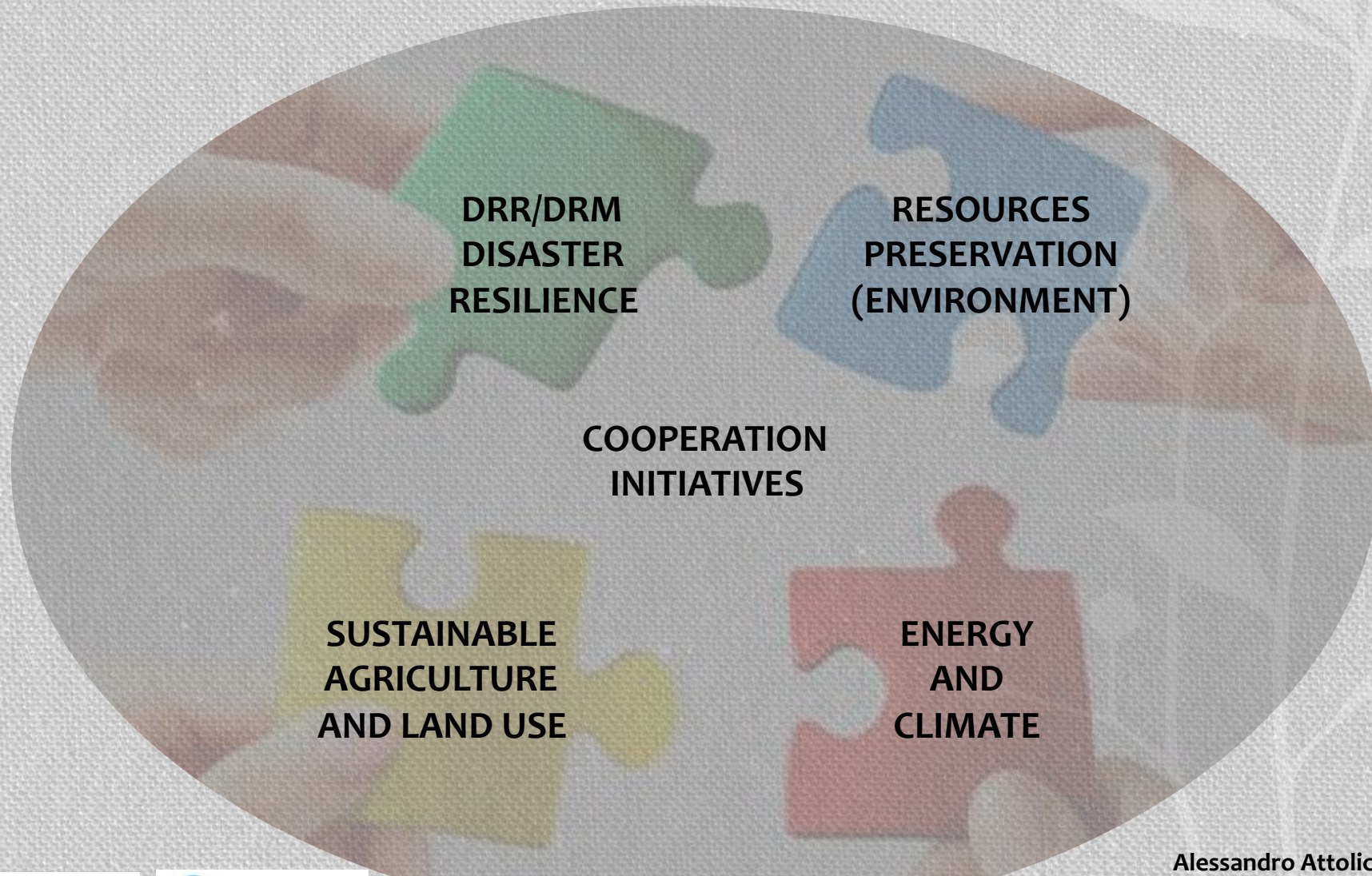
**stimulating, supporting,  
boosting behavioural  
change**

**IMPROVED  
GOVERNANCE**

**facilitating, attracting  
new investments**

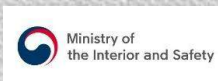
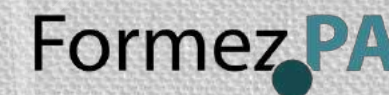
**capitalizing  
experiences gained  
in cooperation  
initiatives**

# Improving Implementation Cooperating and Exchanging opportunities



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# Implementing: Catching new funding opportunities



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# The Follow-up and Review process

## Key elements



- Resilient and Sustainable development built on a shared Vision and a well structured Strategy
- Implementation constantly monitored
- different methodologies and tools used:
  - qualitative/quantitative data collection (indicators), multiscale-multilevel elaboration and diffusion
  - standardized methodologies, tools and data: ISO 37120, ISTAT, ESW (BES), LGSATs/Scorecard, Covenant of Mayors Climate and Energy, etc (a mainstreaming process is ongoing)
- Accountability as a critical element
- Strategy periodically reviewed and recalibrated on specific needs, FuR and accountability outcomes
- Networking: use of permanent *platform* with municipalities, relevant stakeholders, major groups
- Exchanges, partnerships, coordination, leadership

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# Conclusions and final considerations



## Results: the #weResilient Inclusive Strategy & MCR Campaign

- Strong Political and Institutional Commitment
- Coordination of 100 Municipalities → boosting Resilience Policy through the political channel → Political support
- Inclusion of communities and social groups in Decision Making moving from the institutional side
- Chosen channel: land-use & territorial governance → medium/long term strategies
- Institutional bottom-up approach is growing at wider and upper levels
- Networking facilitates city-to-city knowledge exchanges and sharing of GPs
- **... but, all of this needs advocacy: strategically pushing for action every single day!**

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Incheon Metropolitan City

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**The Province of Potenza experience**

**Thank You for Your Attention!**

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