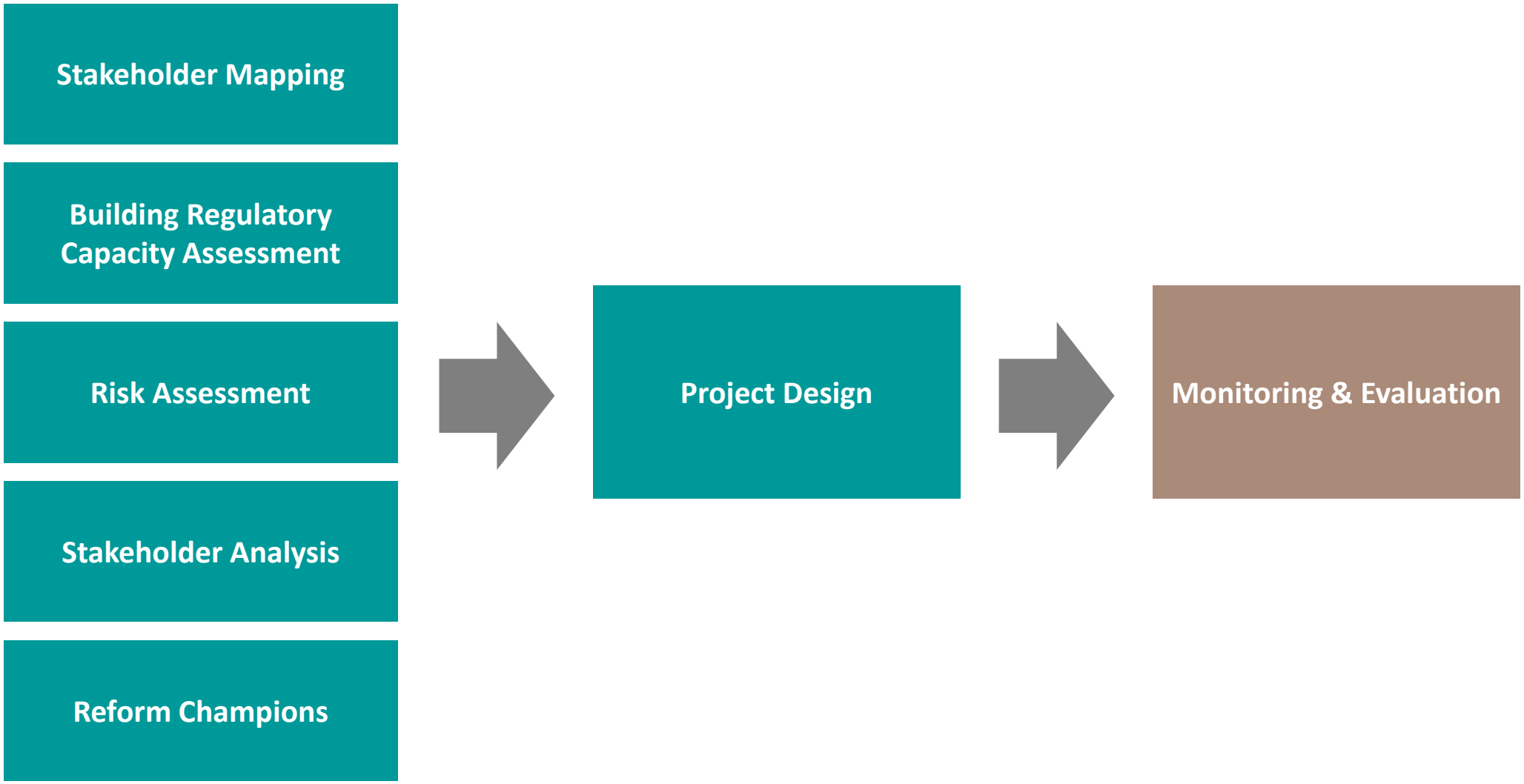
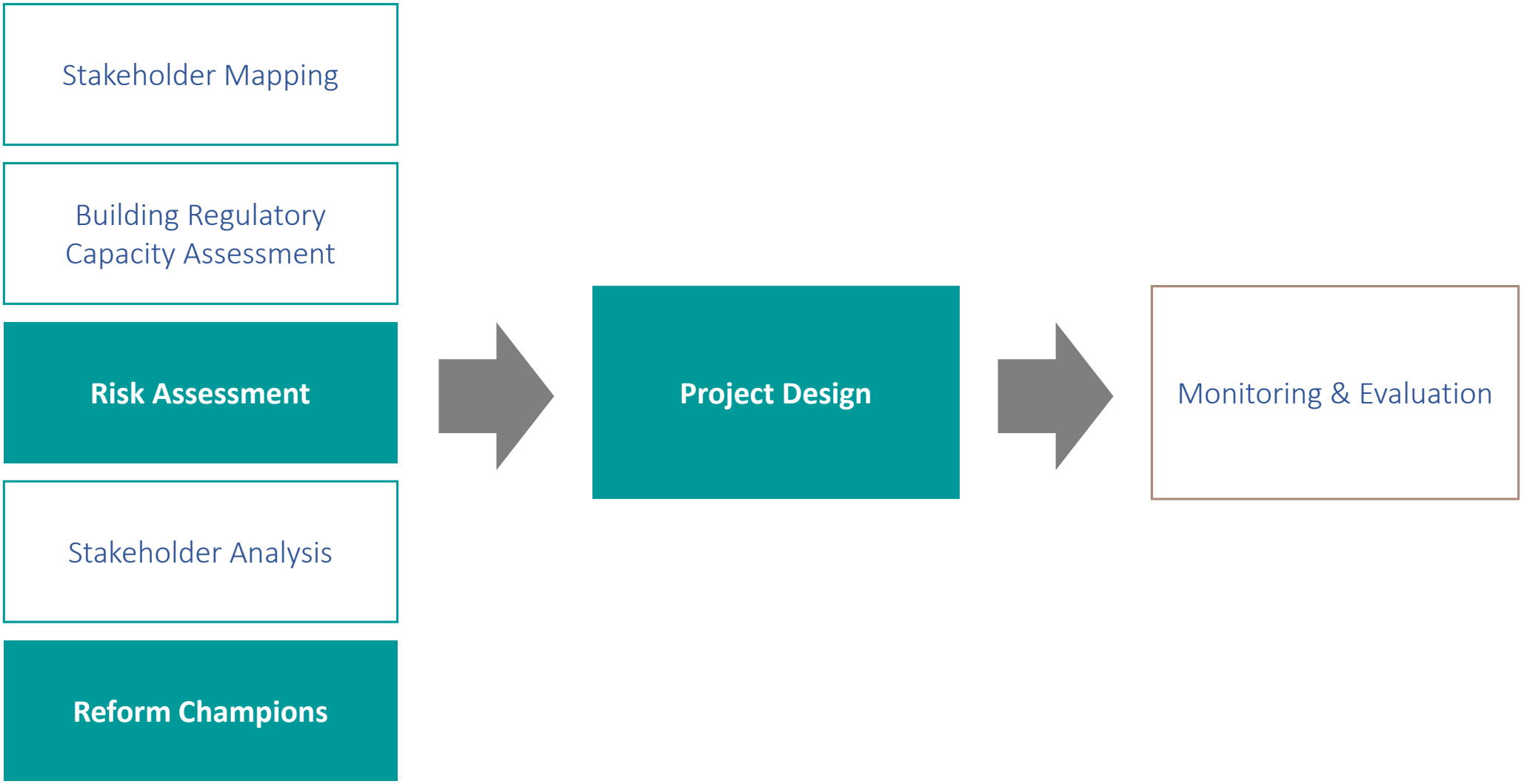
Roadmap for Disaster Risk Reduction in the Built Environment

March 15th, 2018
Kobe

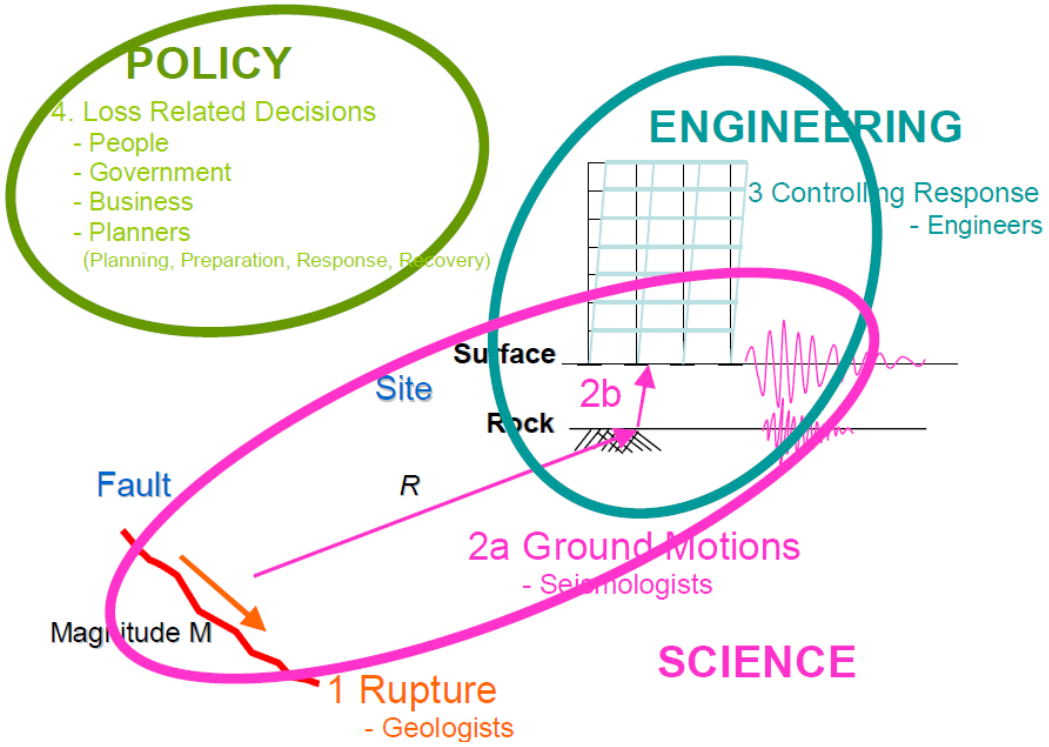
ROADMAP FOR DISASTER RISK REDUCTION IN THE BUILT ENVIRONMENT

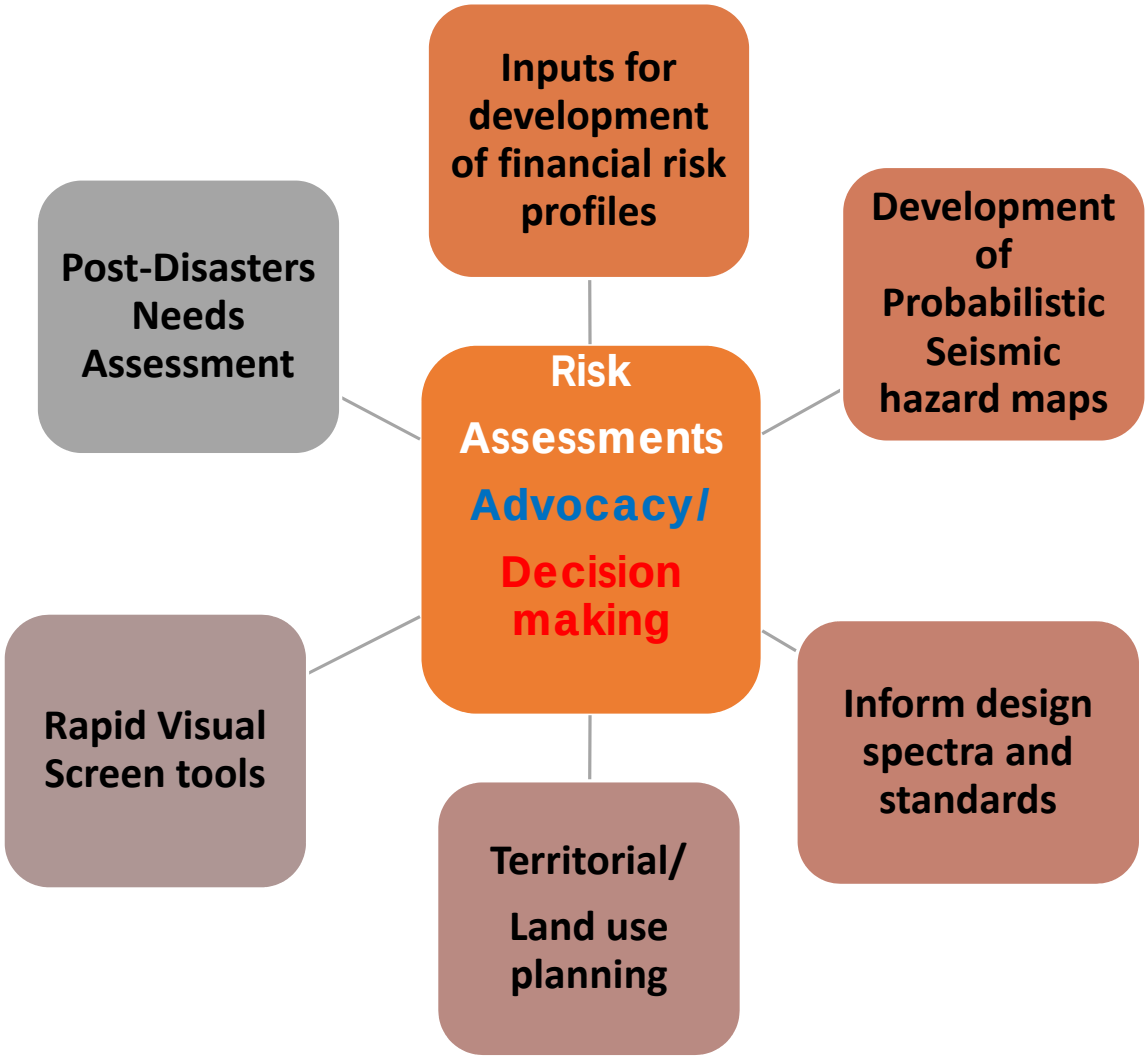


DISCUSSION TODAY FOCUSES ON 3 TOPICS



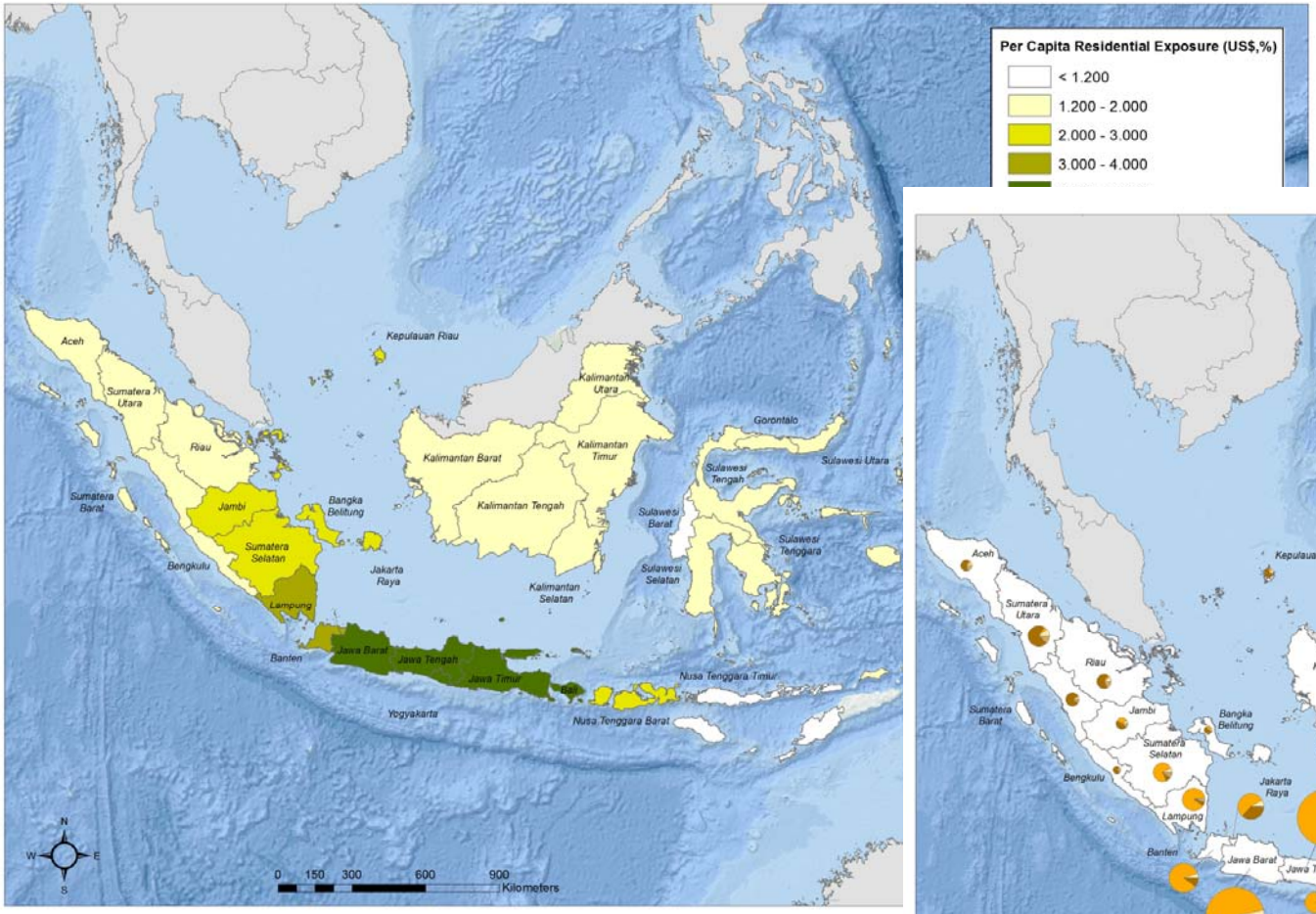
What can we do with this information for BRR?

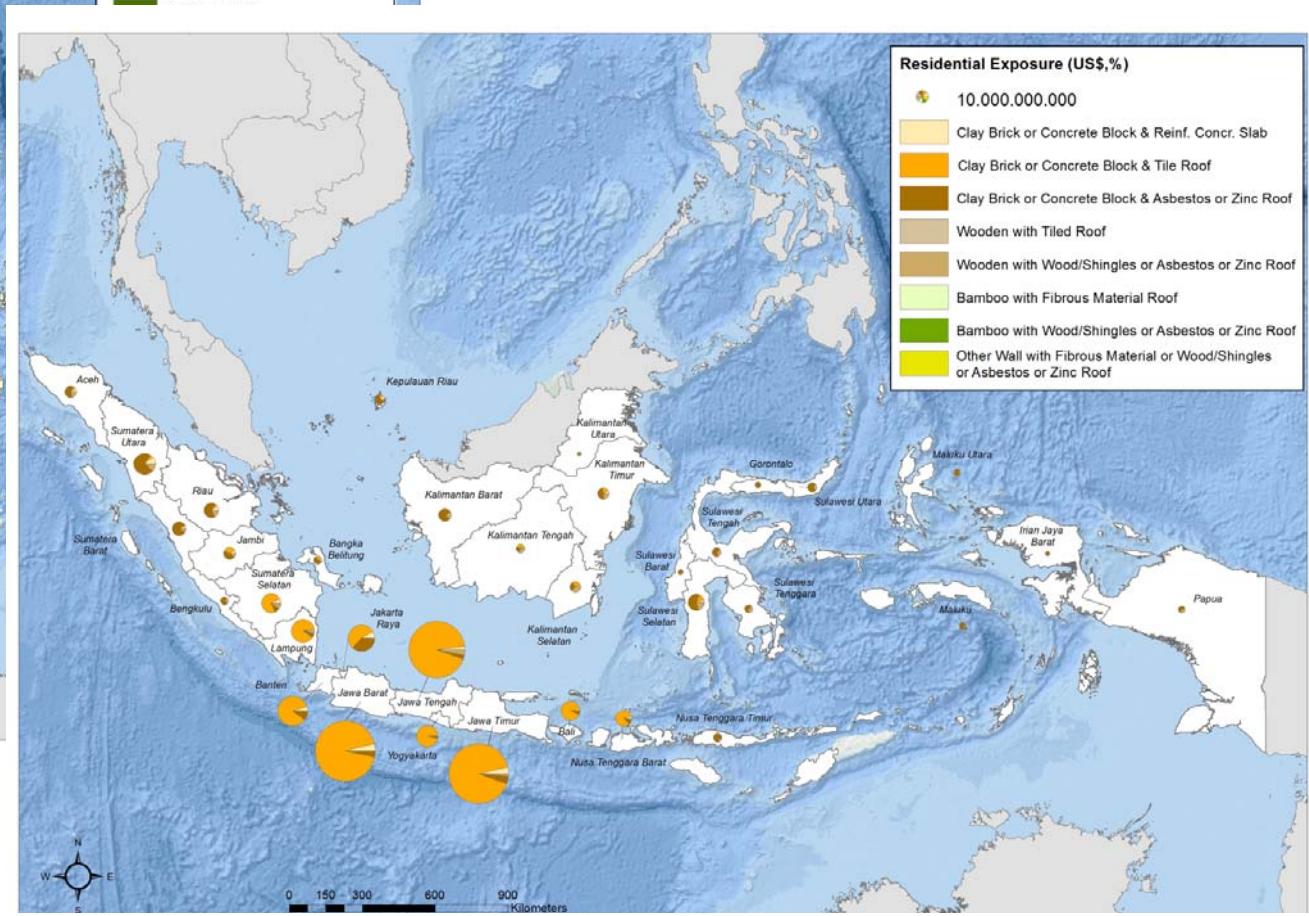




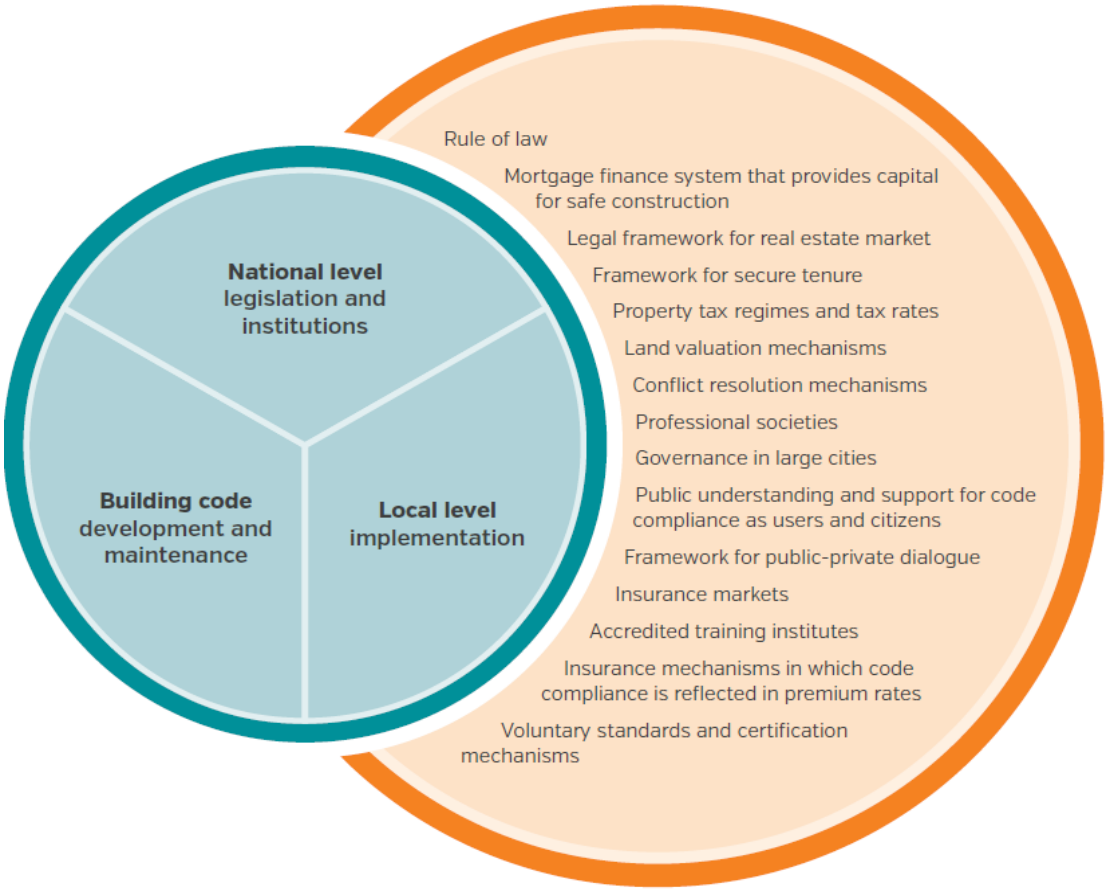
Product	Purpose	Scale	Data Requirements	Cost
Qualitative national risk profile	For advocacy and initiation of DRM dialogue	National	Low: Requires global, regional, and/or national data sets	$
Community-based disaster risk assessment	To engage communities, communicate risk, and promote local action	Community level	Low: Typically based on historical disaster events	$
Quantitative national risk profile	For advocacy and initiation of DRM dialogue based on quantitative assessment	National	Low-moderate: Requires global, regional, and/or national data sets	$$
Asset-level risk assessments, including cost-benefit and engineering analysis	To inform design of building-level/asset-level risk reduction activities and promote avoidance of new risk	Building / infrastructure level	Moderate-high: Requires high-resolution local data for large spatial areas with clear articulation	$$
Macro-level risk assessment for risk reduction, including cost-benefit analysis	To inform urban/regional risk reduction measures	Urban, regional, national	Moderate-high: Requires moderate to high resolution across large spatial areas	$$$
Risk identification to identify critical infrastructure and establish early warning systems	To inform preparedness and risk reduction, based on understanding of potential damage at the regional/local level	Urban, regional, national	Moderate-high: Requires asset-level information across large spatial areas	$$-$$$ [broad range depending on geographic scope]
Catastrophic risk assessment for financial planning	For financial and fiscal assessment of disasters and to catalyze catastrophe risk insurance market growth	National to multi-country	High: Requires high-resolution, high-quality data of uncertainty	$$$

INDONESIA: Residential Exposure



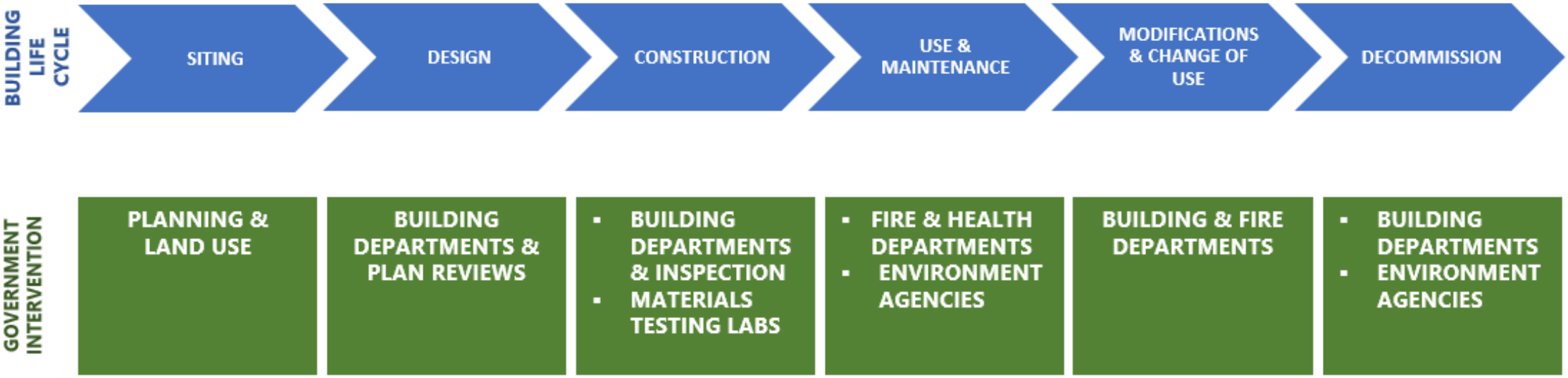


QUESTIONS (1) – PROJECT DESIGN

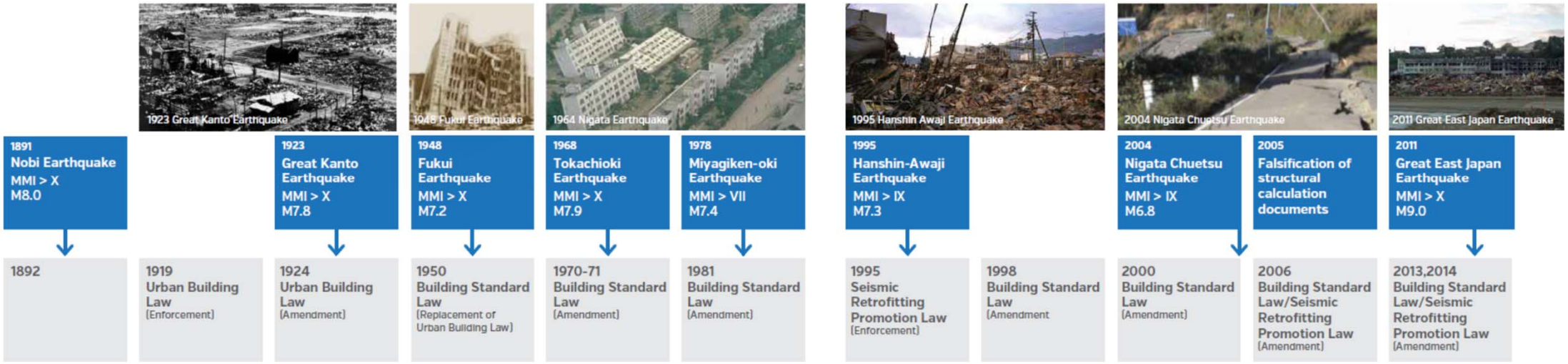


- Under each area, what are the priorities based on your current understanding of issues in your country?

BUILDING LIFE CYCLE



QUESTIONS (2) – WHO ARE THE REFORM CHAMPIONS?



- What can create momentum to initiate reform(s) without waiting for the ‘next one’?
- Who can be champions in your country?

RESOURCES FOR ROADMAP IMPLEMENTATION

AVAILABLE RESOURCES

Construction Permitting Software

Building Regulatory Capacity Assessment*

EDGE Software**

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https://www.gfdrr.org/sites/default/files/publication/building-regulatory-capacity-assessment-level-2-2017.pdf
https://www.gfdrr.org/sites/default/files/publication/building-regulatory-capacity-assessment-level-1-2017.pdf

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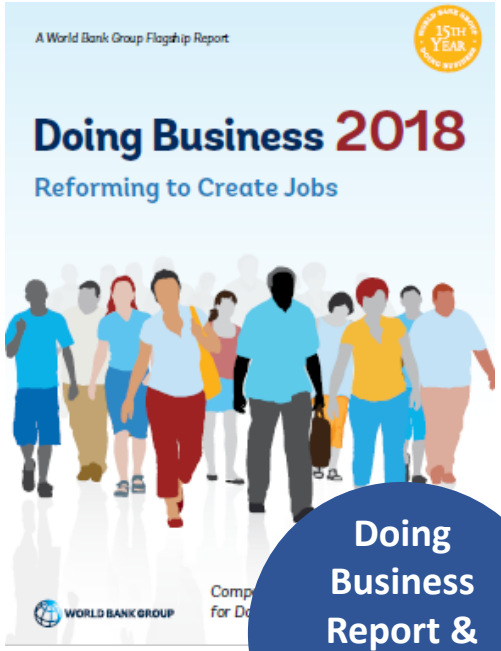
https://www.edgebuildings.com/software/

AVAILABLE RESOURCES

Monitoring & Evaluation for Building Regulatory Reforms

Review of Best Practice***



Doing Business Report & Case Study****

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https://www.gfdrr.org/sites/default/files/publication/BRR%20report.pdf

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http://www.doingbusiness.org/~/media/WBG/DoingBusiness/Documents/Annual-Reports/English/DB2018-Full-Report.pdf