

# NaDiMa Dialogue #1

## Natural Disaster Management: Lessons from Germany and Iran



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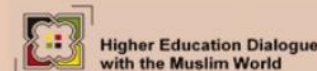


# Two Centuries Two Extremes

## A Review of Post-Disaster Reconstruction Policies in Iran



Ministry of Road & Urban Development  
Road, Housing & Urban Development  
Research Center



DAAD

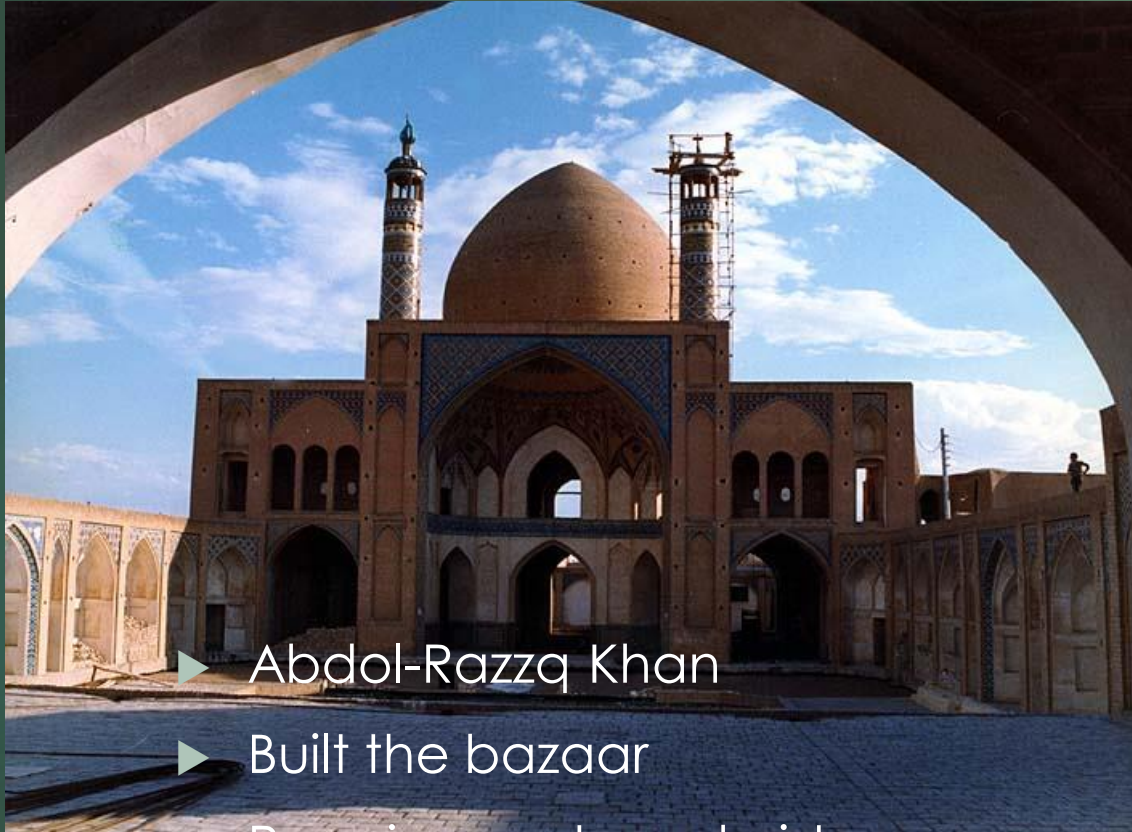


FARZIN FARDANESH

JULY 2020

# KASHAN EARTHQUAKE 1778 AD

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- ▶ Abdol-Razzaq Khan
- ▶ Built the bazaar
- ▶ Repair qanats and cisterns
- ▶ No engineers, seismologists, etc.



# QIR VA KARZIN EARTHQUAKE 1972

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## The Reconstruction Plan

- ▶ Adopted 70 days after the Earthquake by PBO
- ▶ Modernizing the disaster area
- ▶ Technically sound durable structures: unoccupied



# POST-WAR RECONSTRUCTION 1982-1990s

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city, 2000

تهران، سال ۱۳۷۸



Missile attack on Tehran city, Dolat Abad, 1987

حمله موشکی به تهران، دولت آباد، سال ۱۳۶۶

## Reconstruction Task Force

- ▶ gradual move from technical
- ▶ Full-fledged government-sponsored reconstruction to participation concepts

# MANJIL EARTHQUAKE, 1990

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- ▶ The participation concept



# BAM EARTHQUAKE 2004

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- ▶ World Heritage Property



# BAM EARTHQUAKE 2004

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- ▶ World Heritage Property
- ▶ Reconstruction in a city



# BAM EARTHQUAKE 2004

- ▶ World Heritage Property
- ▶ Reconstruction in a city
- ▶ Economy and livelihoods





# BAM EARTHQUAKE 2004

بهاد مسکن انقلاب اسلامی  
حساب ۱۰۰۰ تومانی

مجموعه خدمات مهندسی  
و نمایشگاه فن آوری و مصالح ساختمانی  
شهرستان بام



ساختمان خدمات مهندسی

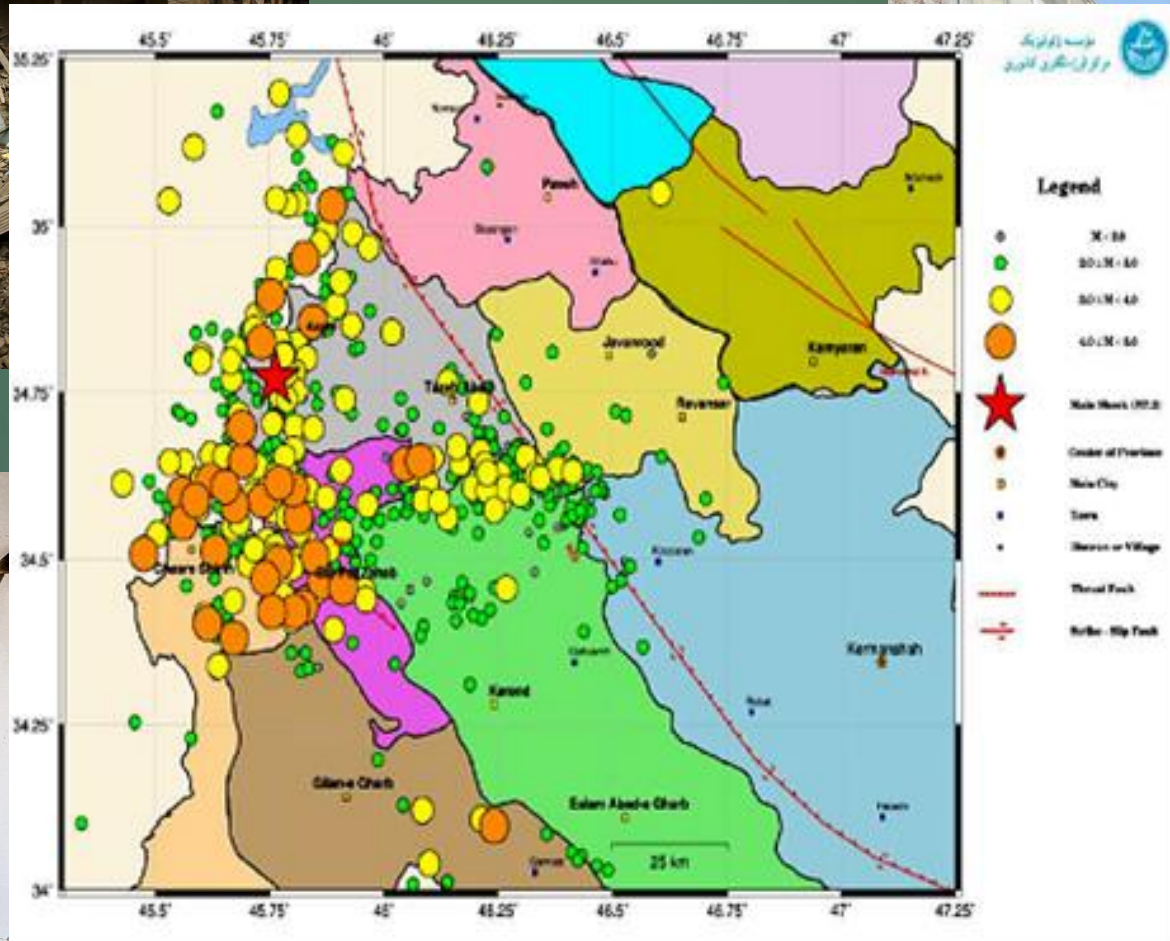
ساختمان نمایشگاه مصالح

سایت مجموعه

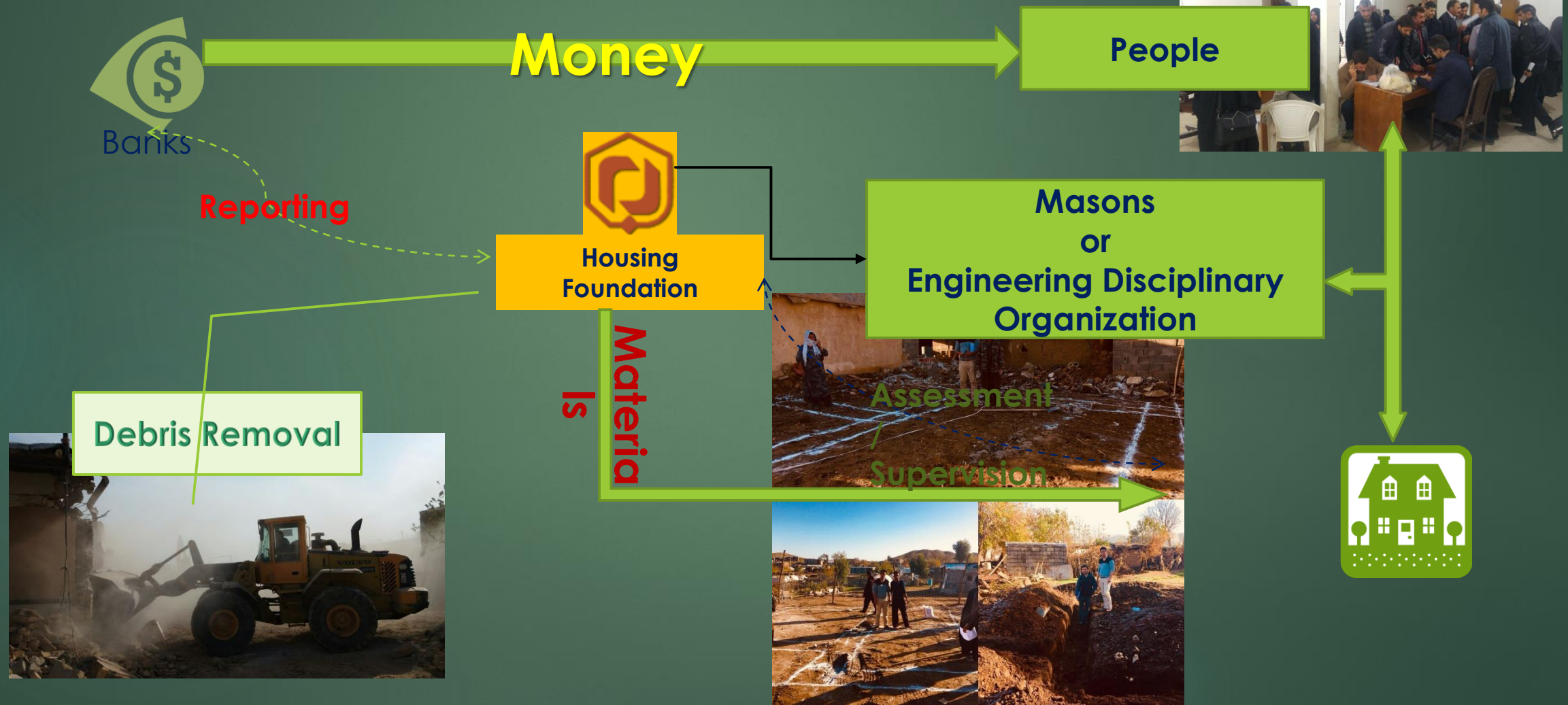
مشاور: مهندسین مشاور نقش کوثر



# KERMANSHAH EARTHQUAKE 2017



# MEANS AND TOOLS: THE RECONSTRUCTION PROCESS



# LESSONS LEARNT

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- ▶ **Support at the highest-level:** Visits of the Leader and the President calms the post-earthquake agitation, but...
- ▶ **Consensus** on reconstruction policies and shared responsibility of all public and private agencies, but...
- ▶ **Rapid reconstruction:** Mobilising resources, but...
- ▶ Streamlined transparent process for both rural and urban areas, ...
- ▶ Coordination, cooperation and collaboration



# LESSONS LEARNT

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- ▶ Diverse shelter solutions
- ▶ Temporary shelter
- ▶ Incremental housing
- ▶ Consider needs of people, cattle, owners, tenants, shopkeepers, etc.



# LESSONS LEARNT

- ▶ **Simultaneous Reconstruction of schools, hospitals and mosques:** making reconstructed areas liveable, but...
- ▶ **Reviving businesses and employment opportunities:** The priority of self-help reconstruction
- ▶ **Community Participation:** The people take the lead in reconstruction of their home, but...



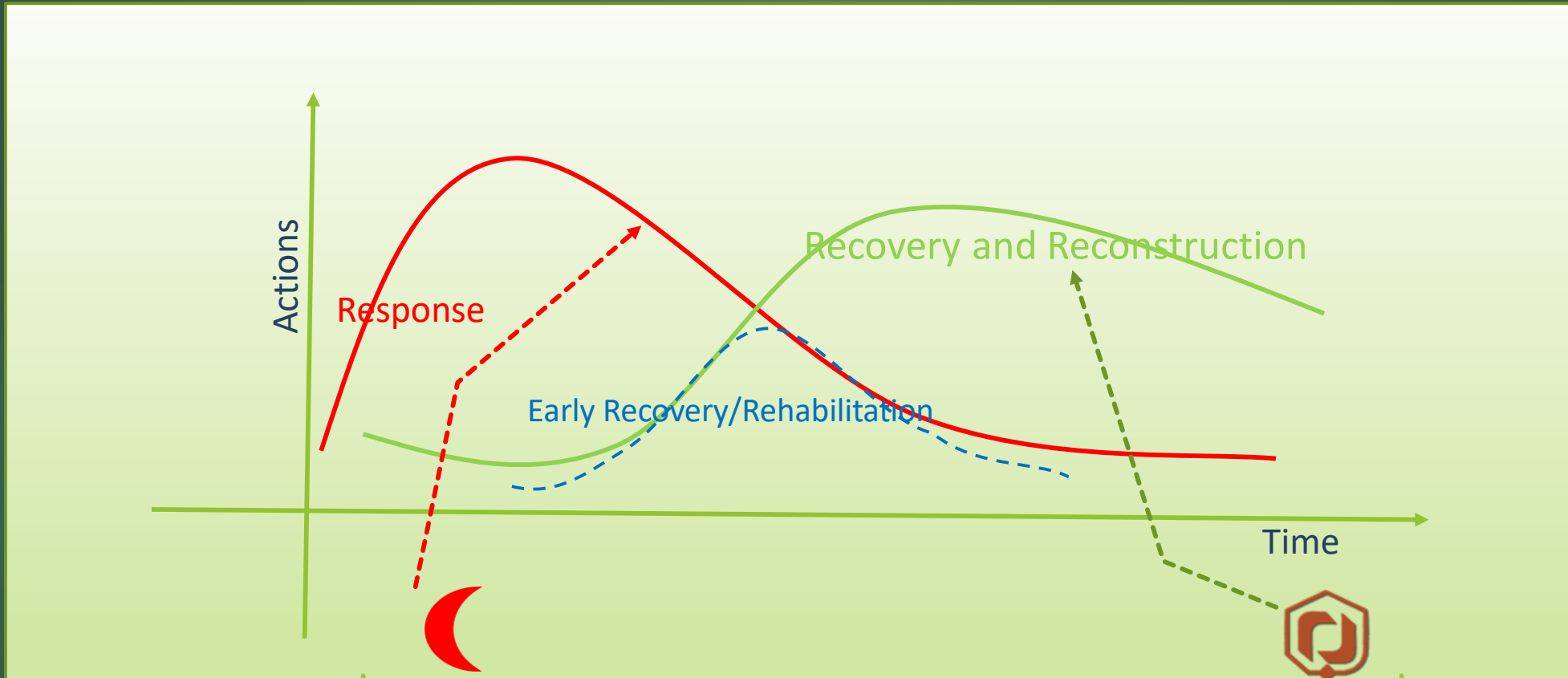
# NEW DISASTER MANAGEMENT LAW AUGUST 2019

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- ▶ Responsibilities of several ministries and agencies
  - ▶ Cabinet Adopted decision (2005)
  - ▶ Law for establishing NDMO (2008)
- ▶ A set of additional documents:
  - ▶ Strategic Plan
  - ▶ National and Provincial Plans for
    - ▶ Disaster Response,
    - ▶ Recovery, and
    - ▶ Preparedness,
  - ▶ Standard Operating Procedures (SOPs)



# INVOLVED ORGANISATION





# POST-DISASTER RECOVERY PLANS GUIDE TO REHABILITATION, RECOVERY, AND RECONSTRUCTION

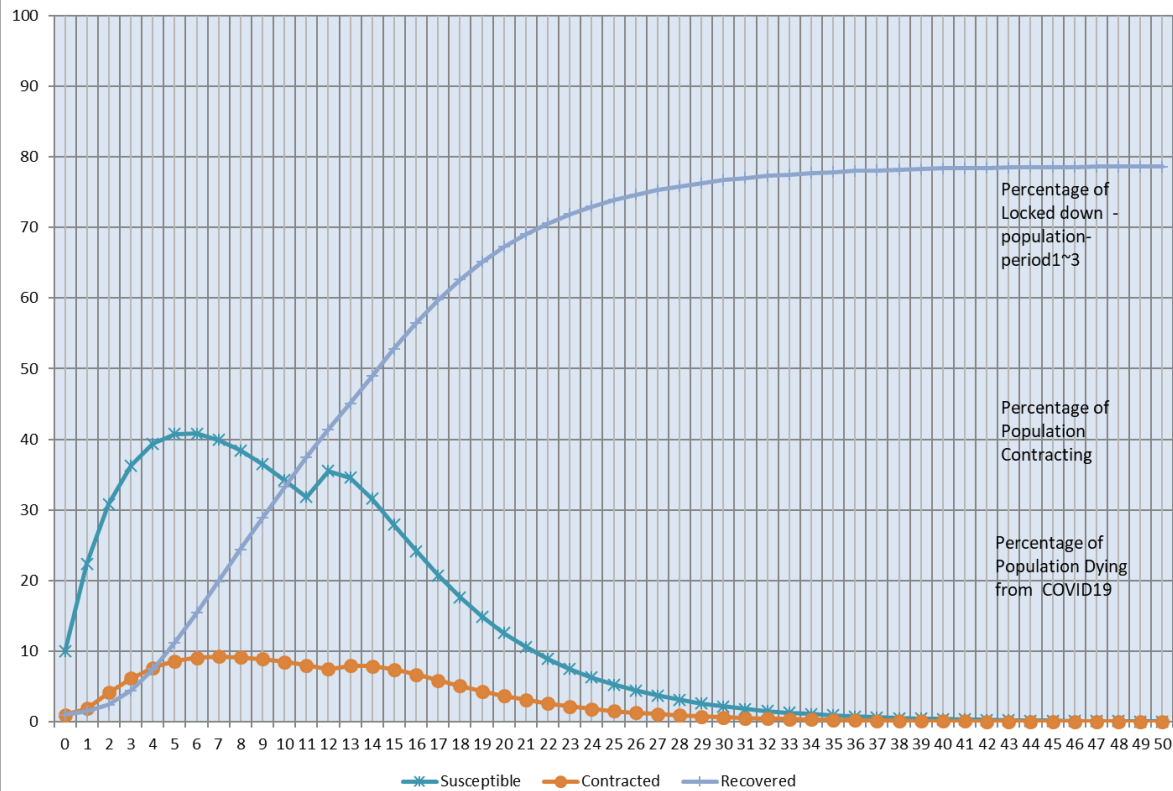
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1. Organisational Structure
2. Damage and Needs Assessment
3. Rehabilitation
4. Recovery
5. Reconstruction
6. Monitoring, Evaluation, and Documentation

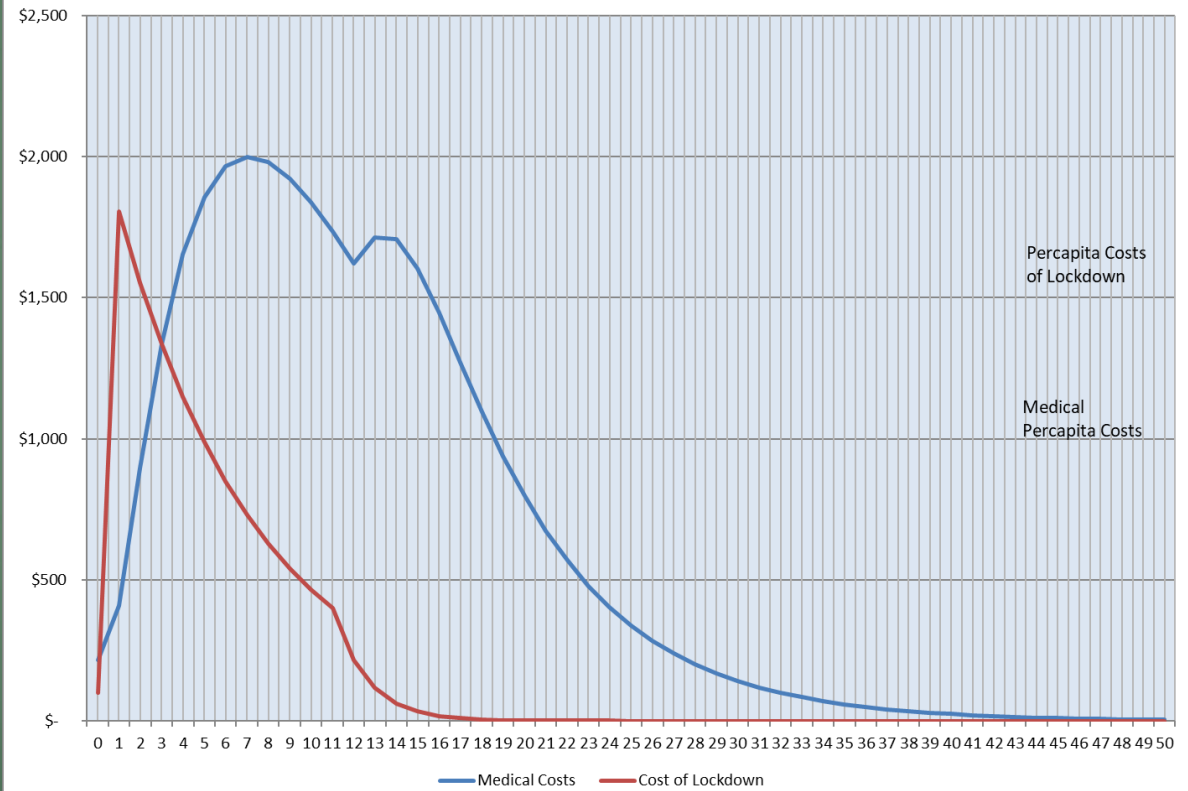


# COVID-19

### COVID-19 Scenarios



### COVID-19 Costs



# COVID-19

19

- ▶ No physical damage; significant economic impact
- ▶ Response and lockdown timing
- ▶ People's role
- ▶ Urban plans and quarantine
- ▶ Urban mobility options
- ▶ Mental Health and Psychosocial Support
- ▶ Economic recovery and target population



## Acknowledgements

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Thank you for your attention.