## Intervention in the Social Acceptance of Energy Infrastructure: the role of compensation



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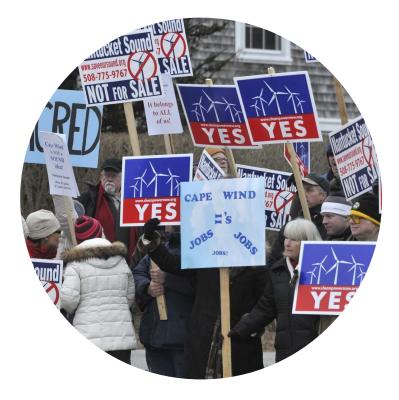
# **Social Acceptance of Energy Infrastructure**

Social acceptance of new infrastructure occurs when the welfare decreasing aspects of the project are balanced by welfare increasing aspects of the project, to leave each agent [...] better off and supportive of the project 66 Cohen et al., 2014

## Social Acceptance

## what is social acceptance?

- global problem, local solution
- public responses to energy infrastructure
- olitical community market
- variables
  - visual impact
  - landscape value
  - land-use
  - o costs-benefits
  - decision-making



## Social Acceptance

#### what are the limitations of social acceptance?

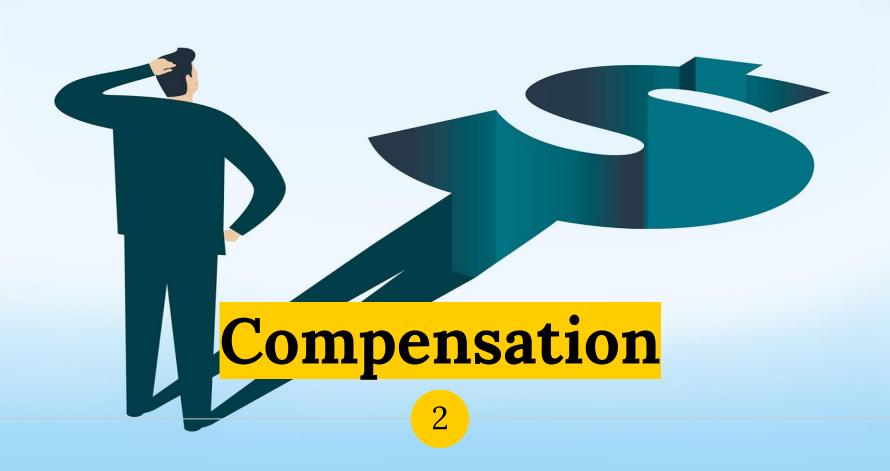
- how to explain connection between variables and public responses?
- frameworks
  - NIMBY
  - psychological explanation
  - place identity
  - discourse
  - o political and economic models
- descriptive explanatory predictive?
- from passive to active

## Social Acceptance

## intervention strategies

- institutional capacity to address legitimate concerns
- participation in planning process
- compensation





## Compensation

why is understanding compensation important?

- counterbalancing payment or action
- broad range of mechanisms and arrangements
- energy transition: proliferation of energy infrastructure = more potential conflicts
- public response of local communities crucial for planning success

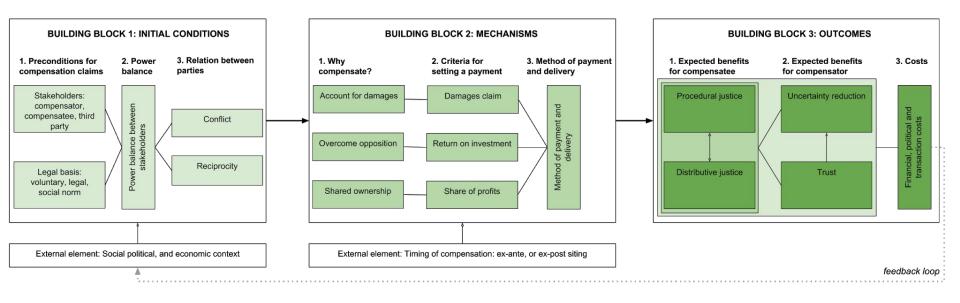
## **Research questions**

- 1. Under what conditions are local communities, regulators and developers more willing to accept compensation measures?
- 2. How do different compensation mechanisms affect social acceptance?

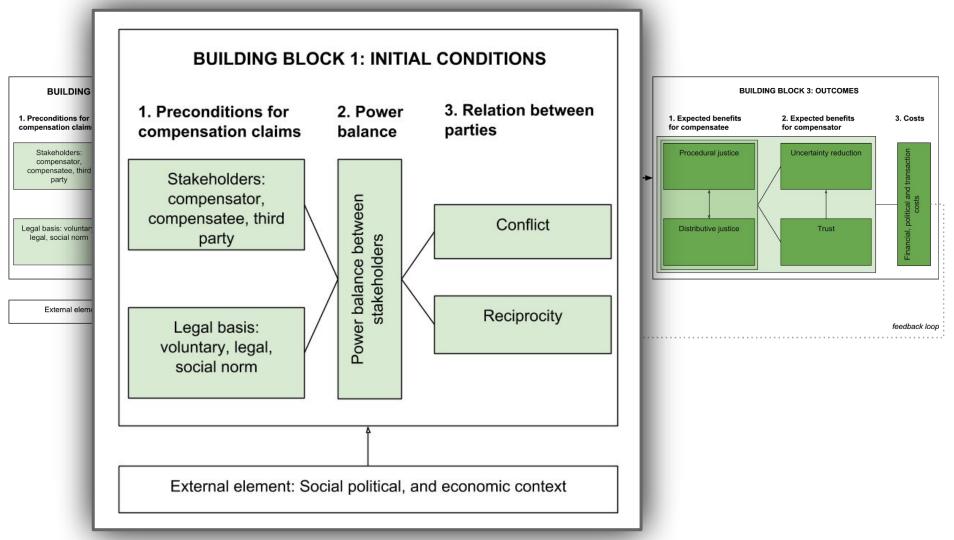
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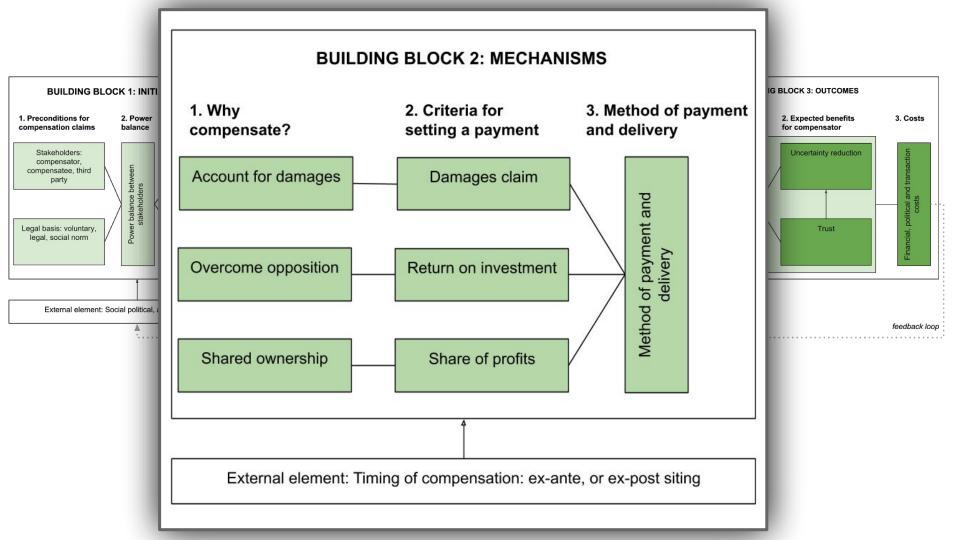
#### Compensation across disciplines

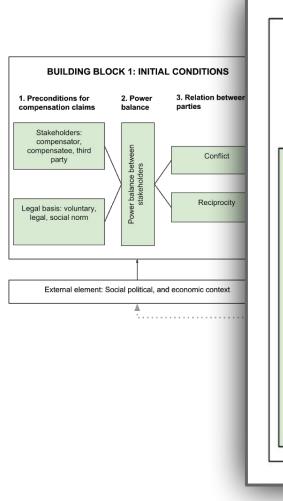
Terminology	Disciplines	Compensation Mechanisms	Reason for Demanding Compensation	Expected Response to Compensation	Major Limitation
Linked Development	Urban Studies	Direct non-monetary	External funding for public services	Planning permission	Disconnected from need of affected community
Section 37 (Canada)	Urban Studies	Direct monetary Direct non-monetary	External funding for public services	Planning permission	Unequal distribution of benefits
СВА	Urban Studies	Indirect monetary Direct+indirect non-monetary	Funding for community needs	Social acceptance	Lack of representation of weaker groups
НСС	Infrastructure Planning	Direct+indirect monetary Direct+indirect non-monetary	Internalization of externalities	Planning permission Social acceptance	Long-term implementation, misrepresentation of community
Community Benefits	Energy Infra. Planning	Direct monetary Indirect non-monetary	Internalization of externalities	Social acceptance	Power imbalances between developer and community
Land Value Capture	Transportation Studies	Indirect monetary	Internalization of future externalities	Planning permission	Inaccurate estimation of land value rise
Mitigation Banking	Ecology	Indirect monetary	Offset of ecological impacts	Planning permission	Monetize ecological losses

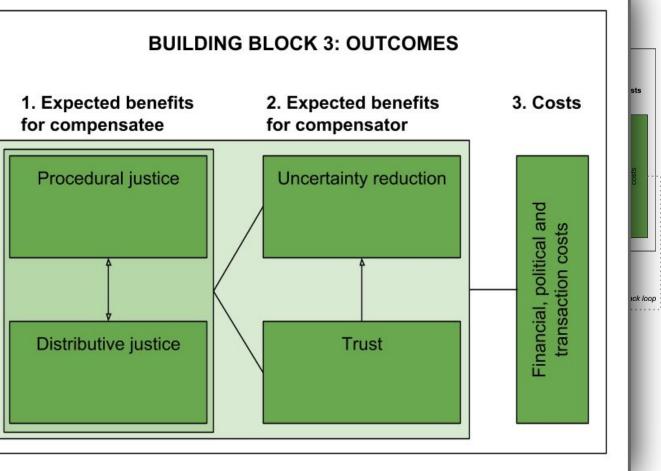


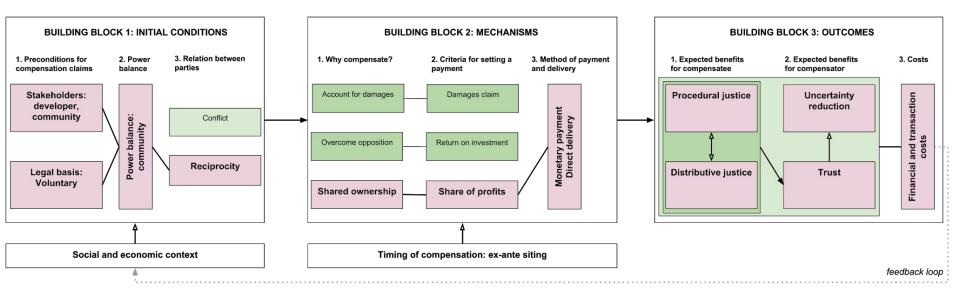
**Typology of Compensation Trajectories** 



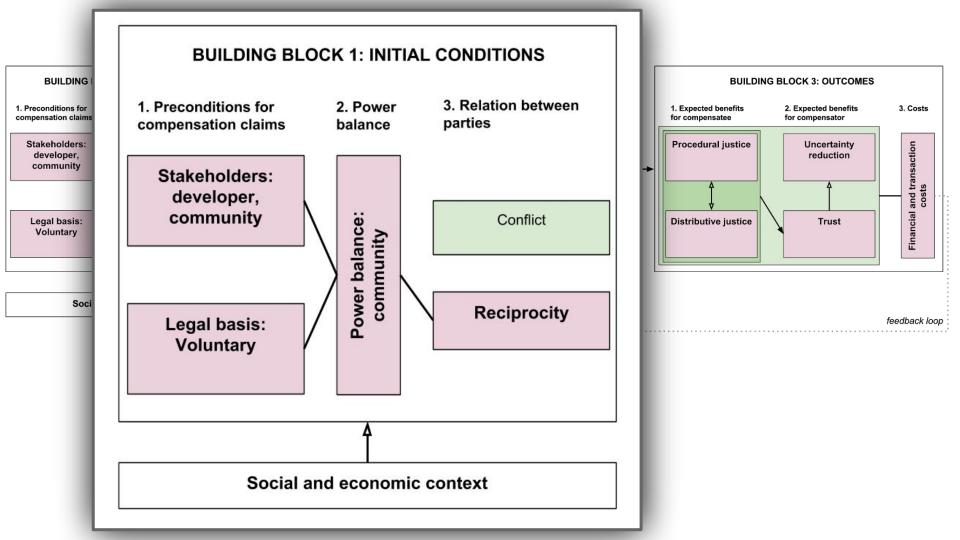


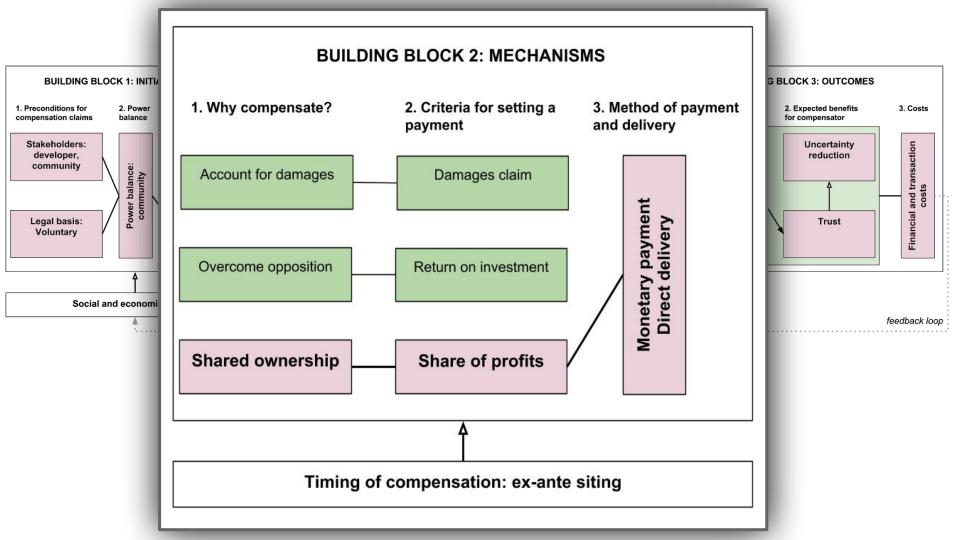


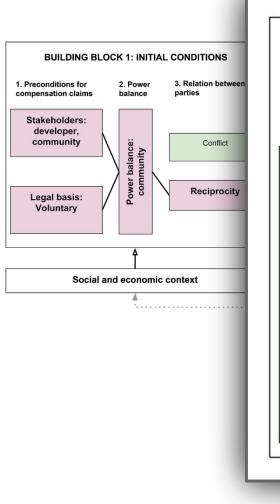


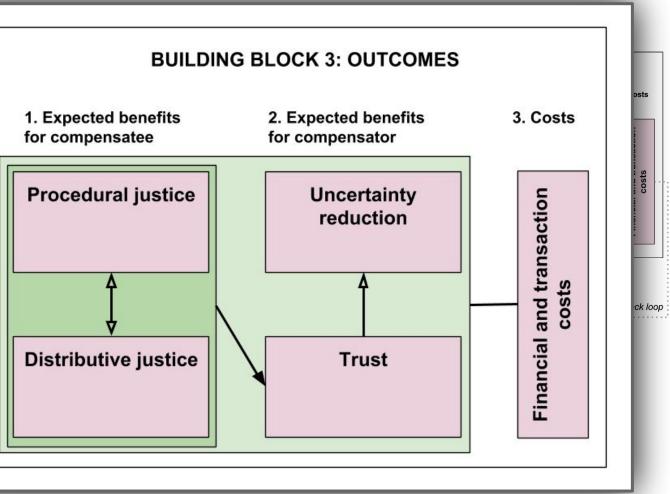


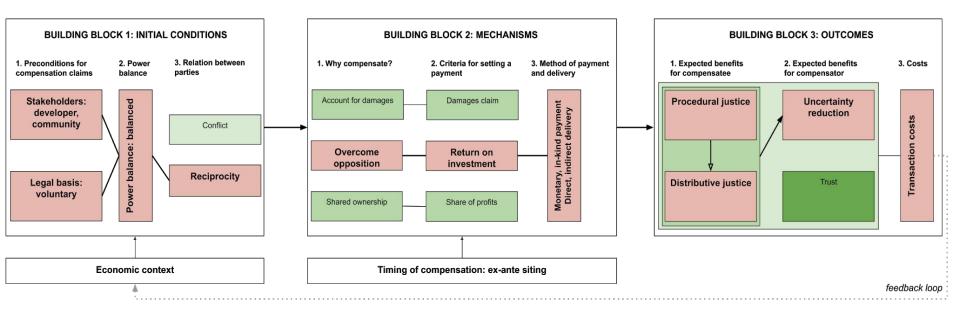
#### Hypothesis: High Compensation, High Social Acceptance Trajectory



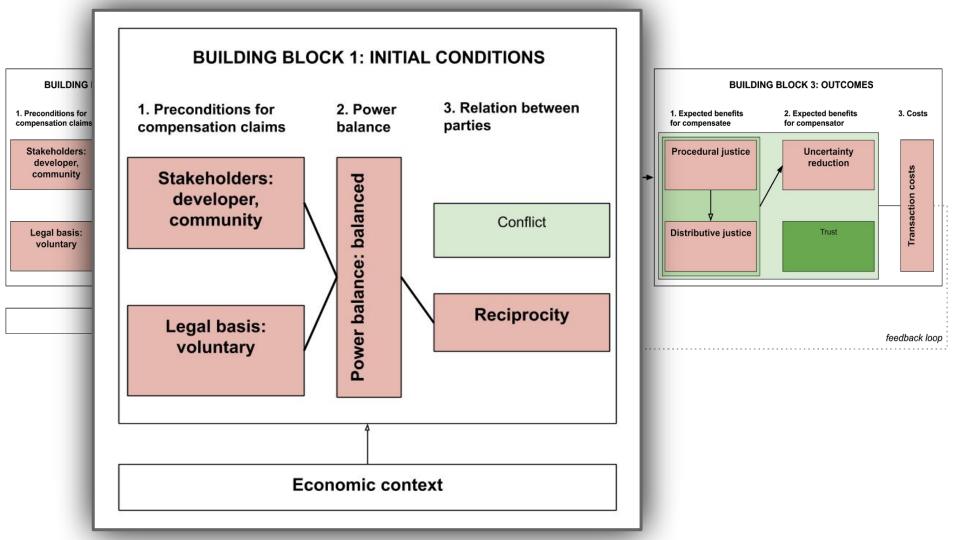


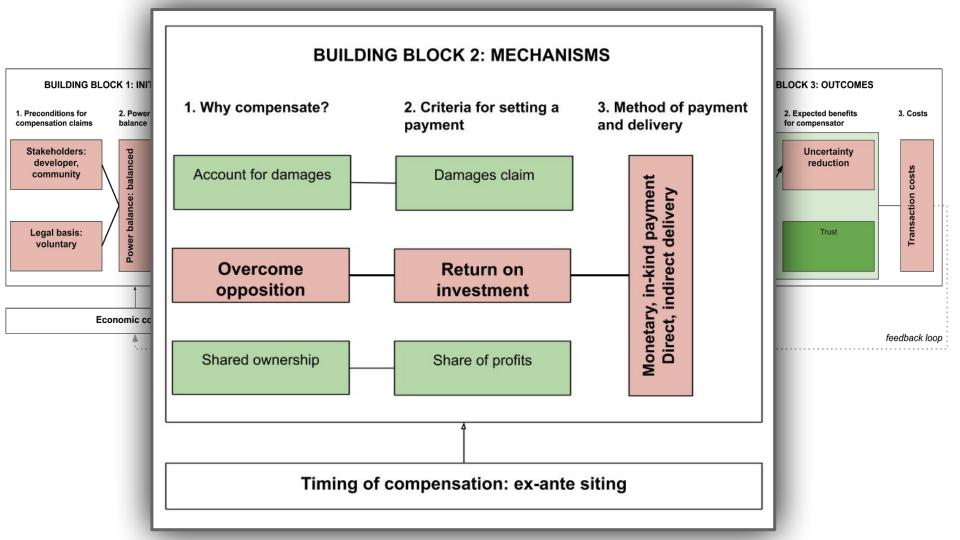


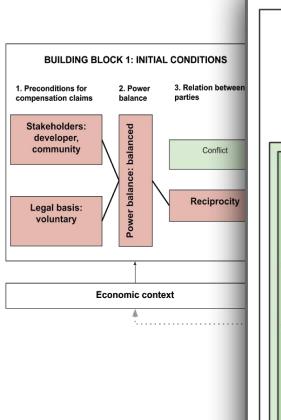


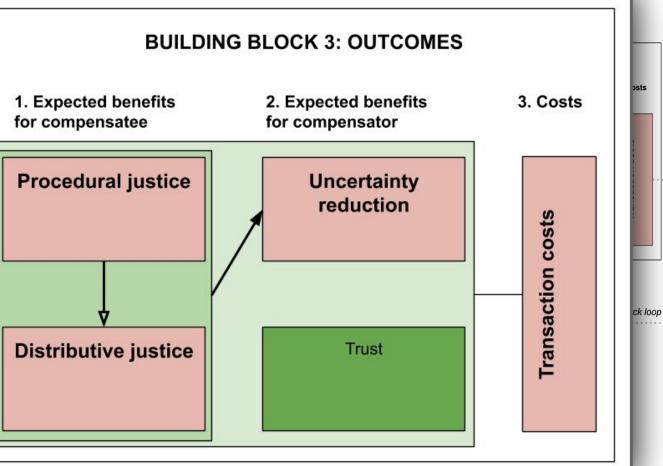


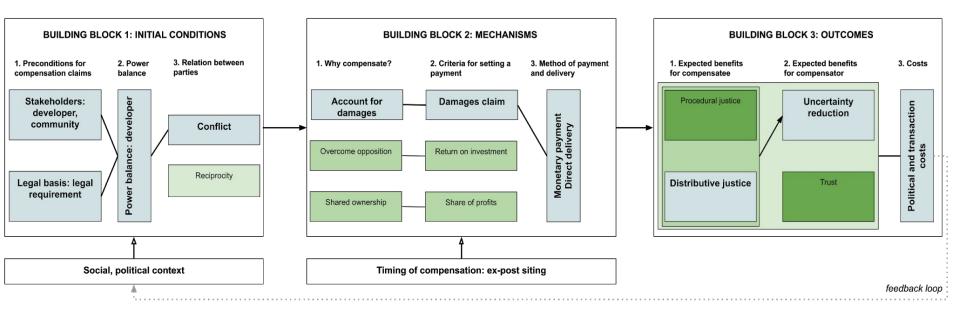
#### Hypothesis: Low Compensation, High Social Acceptance Trajectory



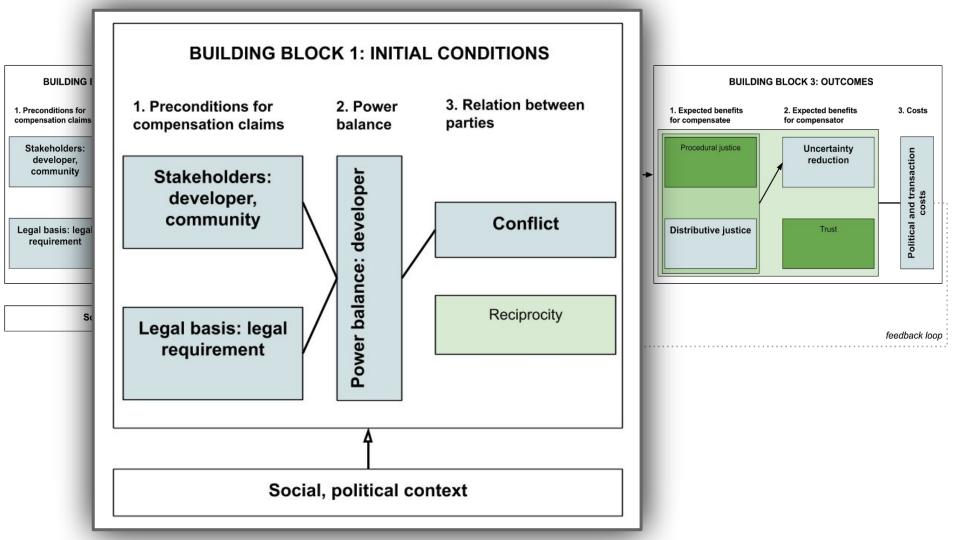


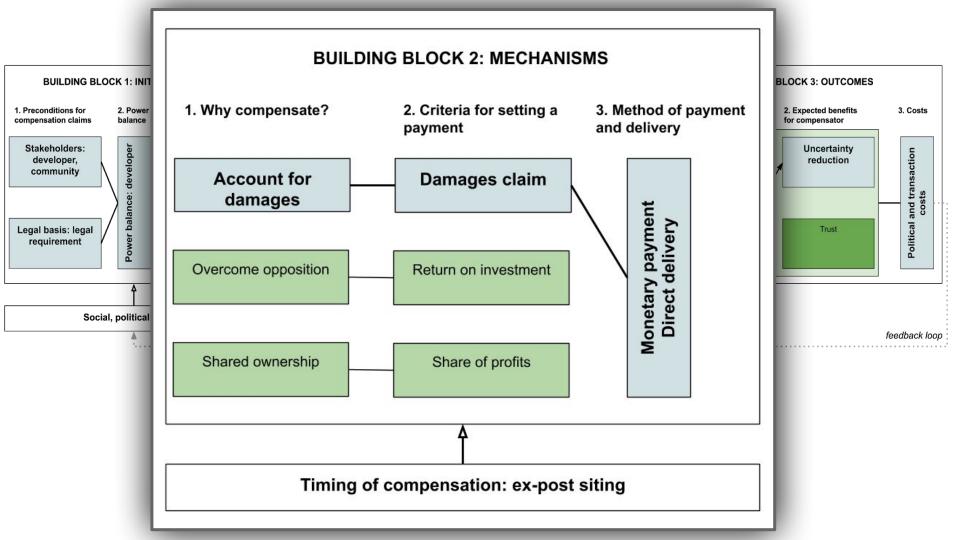


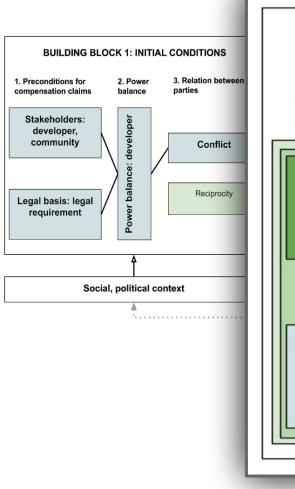


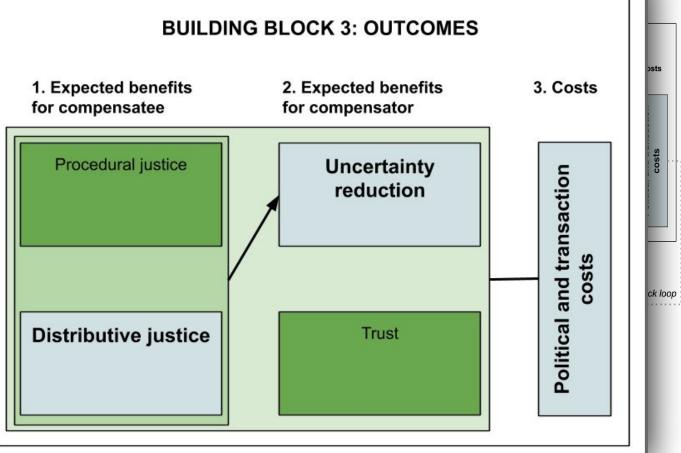


Hypothesis: Low Compensation, Low Social Acceptance Trajectory











# Any questions ?

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