#### **Criticality and vulnerability assessment of the multimodal transport network of Bangladesh**

Jan Kwakkel

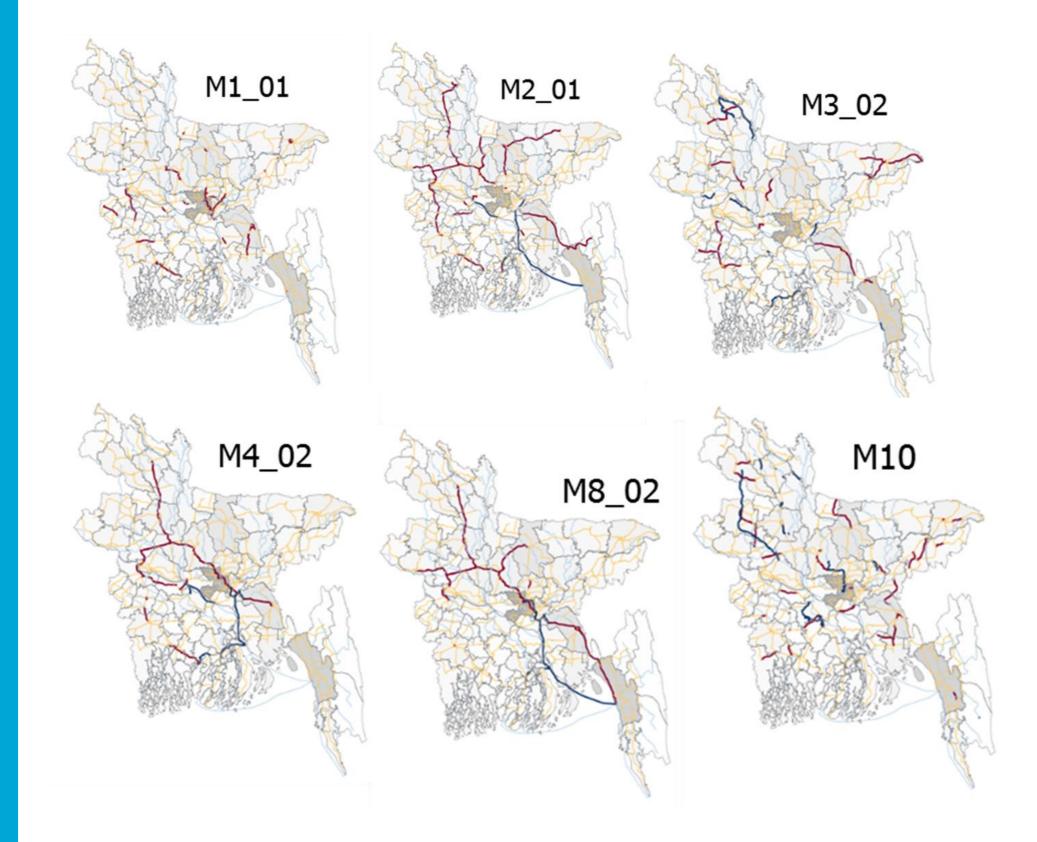


### **Objectives**

- Understanding the criticality of the transport network ranking each transport network segment based on its relative importance for the functioning of the system
- Evaluating the vulnerability of the transport network how is system functioning affected when multiple links in the network are simultaneously disrupted
- Exploring the impacts of different investment options under deep uncertainty how is system functioning changed due to interventions

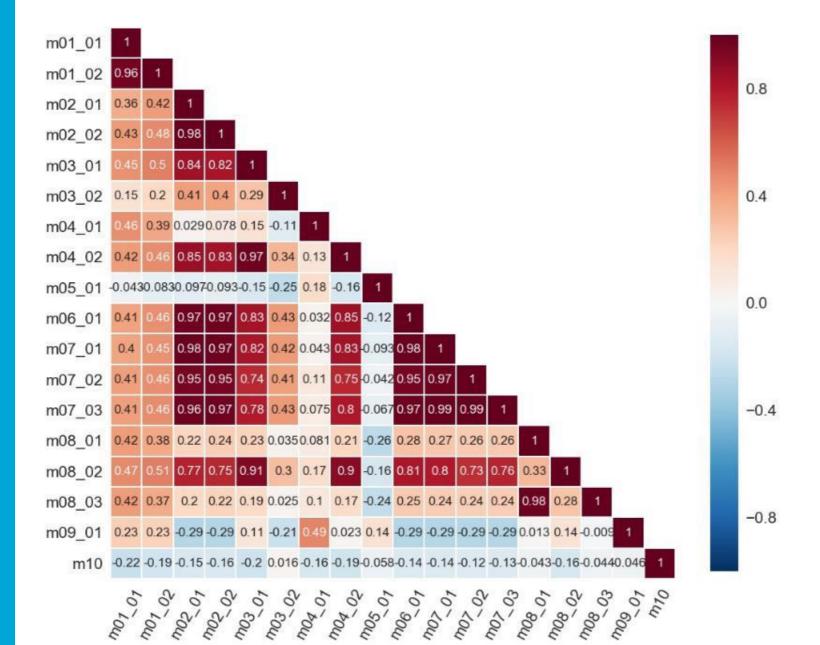


## **Criticality analysis**

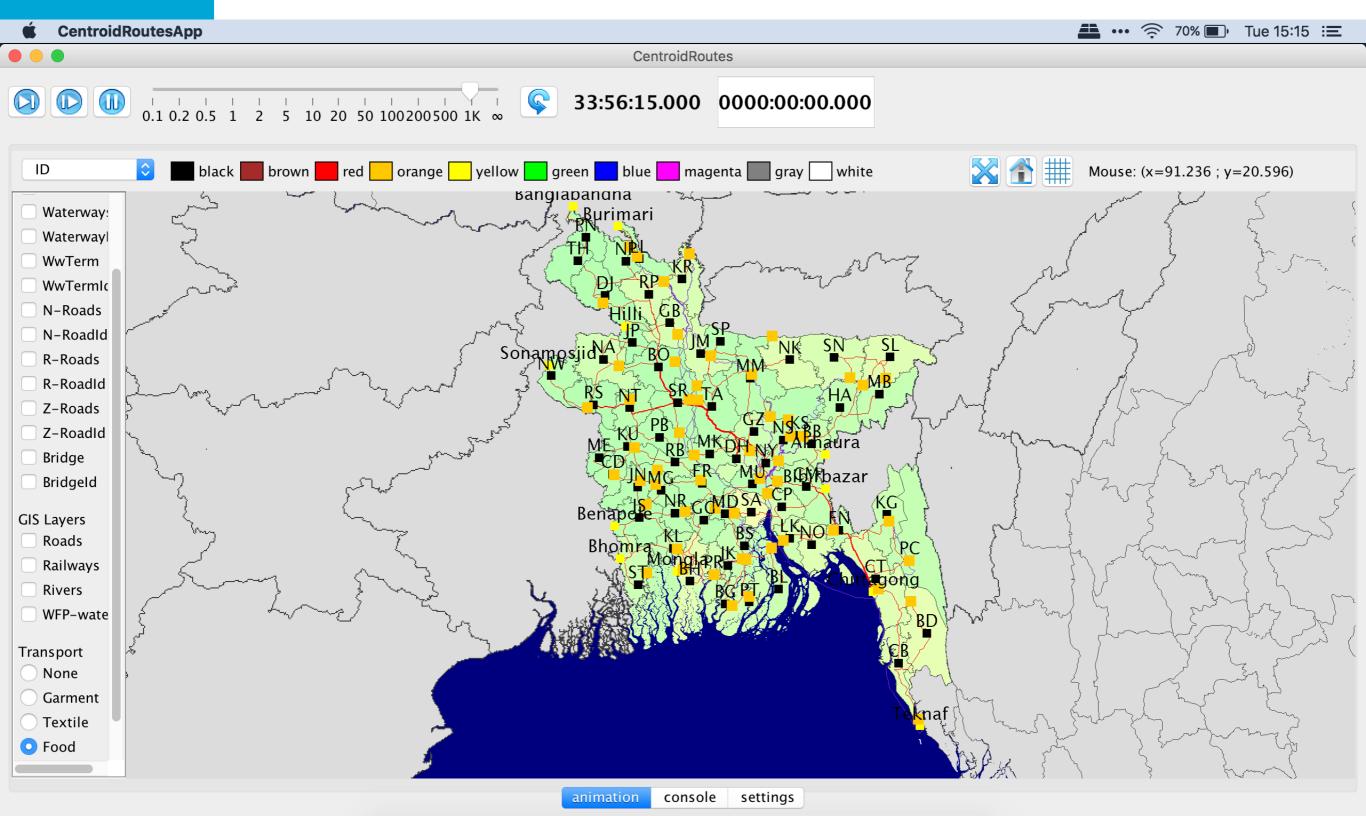




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## Vulnerability analysis



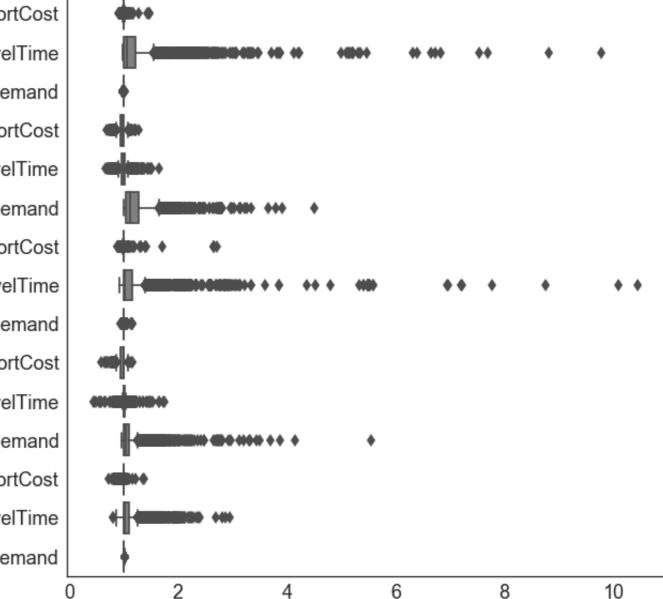
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## Vulnerability analysis

Brick\_TransportCost Brick\_TravelTime Brick\_UnsatisfiedDemand Food\_TransportCost Food\_TravelTime Food\_UnsatisfiedDemand Garment\_TransportCost Garment\_TravelTime Garment\_UnsatisfiedDemand Steel\_TransportCost Steel\_TravelTime Steel\_UnsatisfiedDemand Textile\_TransportCost Textile\_TravelTime Textile\_UnsatisfiedDemand

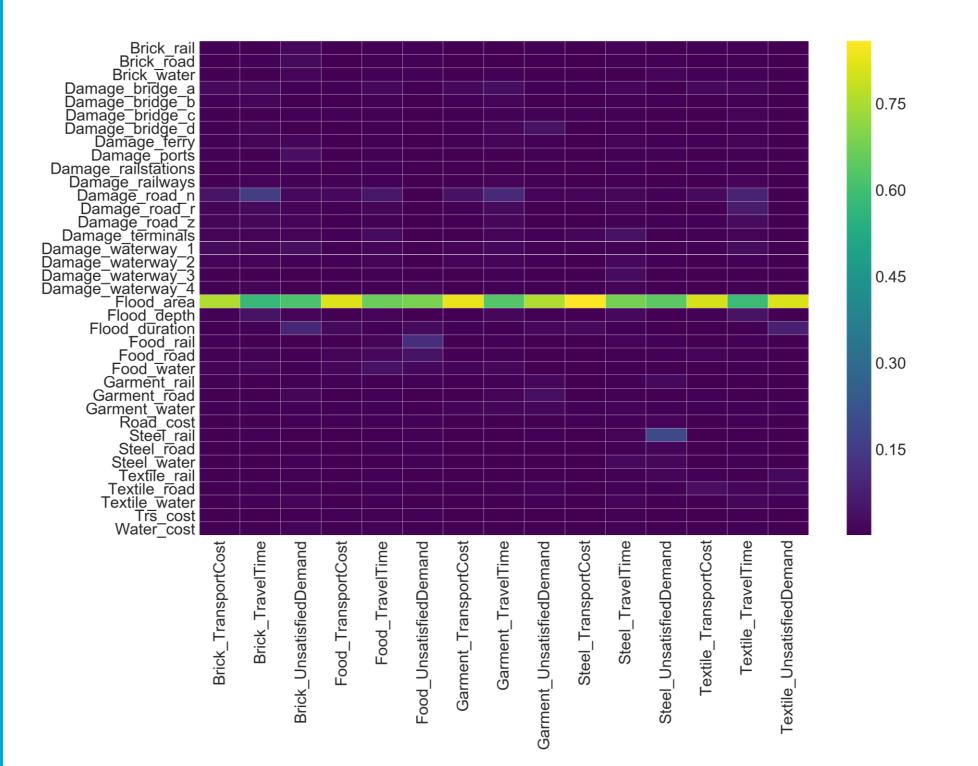


impacts relative to non flooded

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#### **Feature Scoring**

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### Interventions

