

Why Adaptation is important

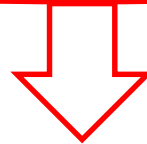


- 98% of C40 Cities say the effects of climate change present *significant risks* for their city.
- Key hazards identified are coastal and inland storm flooding, heat, as well as, drought.
- 61% of C40 cities face the risk of heatwaves.
- Climate change will cost the global economy more than *USD\$ 2.5 trillion a year* in lost productivity by 2030 due to occupational heat stress alone.
- With *640 million people* residing in C40 Cities it is *imperative* that we get it right.



Interdependencies and Cascading Failures

- Infrastructure interdependencies can be categorized into four main types:
 - **Physical:** commodities/services mutually dependent between offer and demand
 - **Cyber:** infrastructure depending on ITS
 - **Geographic:** potential climate impact on infrastructure in proximity
 - **Logical:** disruptions to a system cause second-order impacts via connections that are not physical, cyber, or geographic in nature

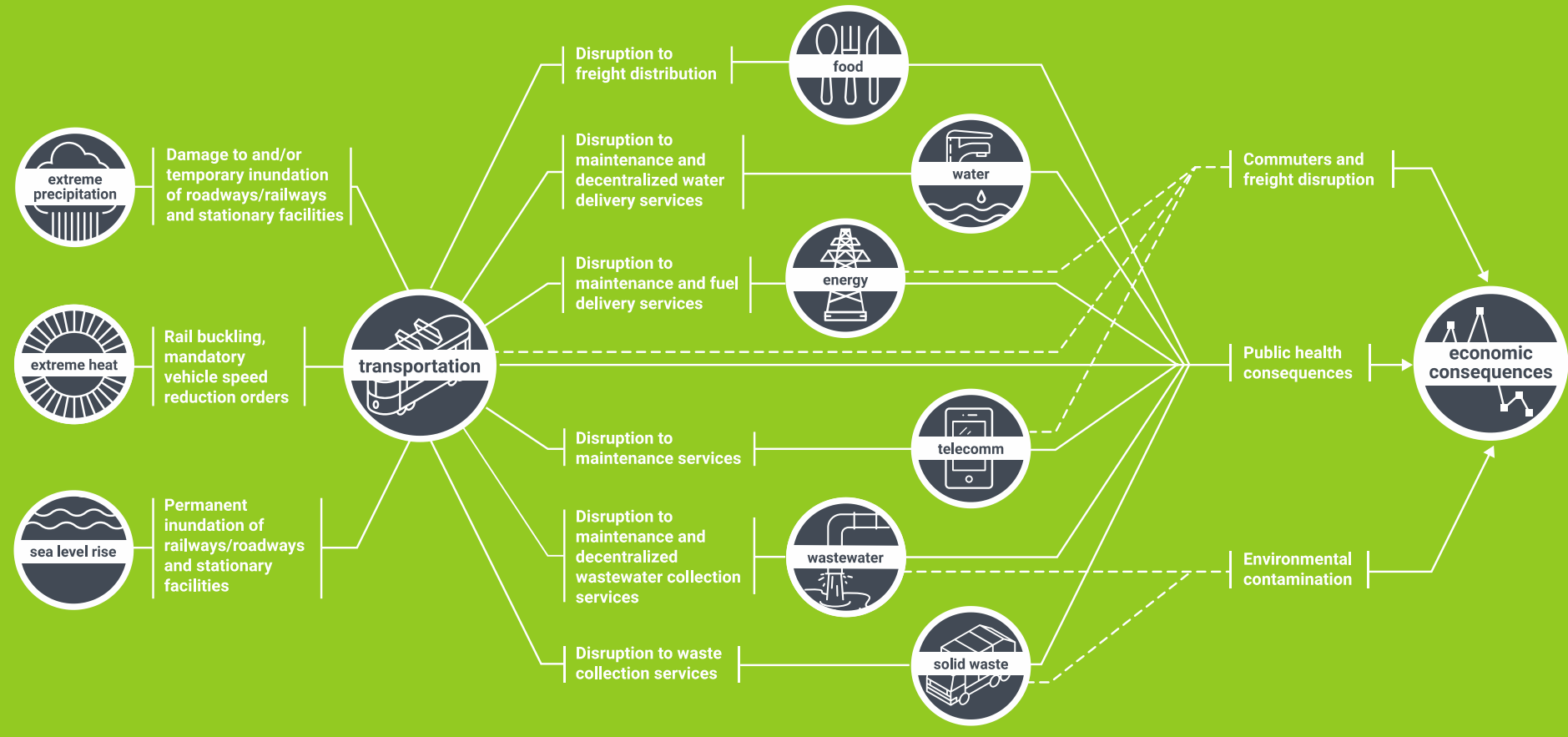


CASCADING FAILURES



Example: Toronto. Climate impacts in Transport systems

Example of a sector that impacts multiple sectors: **Transportation**



Climate Hazard Impacts on Infrastructure Sectors





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