

Module 4 Lesson 3 — Resiliency in Urban System Design

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4.3.2 The Ecosystem Approach to Resilient Design

- Calls for awareness of both direct & indirect interactions within a city
- Tells us to be constantly aware of interactions of subsystems within larger systems
- Materials, energy & information flows within & between built and natural environments
- Systems & system scales
- Life-cycles of infrastructure & infrastructure elements

- Involves consideration of context of design
- " " " short and long term impacts of the design
- Necessitates awareness of systems where the infrastructure is embedded
- " consideration of life cycle of infrastructure

> These considerations influence goals of infrastructure design

4.3.3. The Ecosystem Approach at UBC

- Integrating multiple systems into planning, instead of treating them separately
 - ↳ enhances resiliency, quality of public realm
- ^{ex.} Green spaces provide multiple use
- Biodiversity needs to be integrated into multiple scales
 - ↳ integrate at the building scale
 - ↳ e.x. green roofs, walls, planting pallets, protecting tree assets
 - ↳ enhance biodiversity (it can attract birds, butterflies, etc.)
 - ↳ ecological health is related to human health
 - ↳ anxiety levels go down with more green spaces