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ENGINEERING ETHICS

Recitation 9
EG-UY 1004

AGENDA

1. Engineering Ethics
2. Technical Writing & Ethics
3. Milestone 3 Presentations



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3

SOCIAL RESPONSIBILITY IN ENGINEERING

“an action-oriented goal of making the world’s resources more equally accessible and distributed to all individuals and keeping production and use of resources sustainable”
(Erbe, 2014)



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17 SUSTAINABLE DEVELOPMENT GOALS



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THINK-PAIR-SHARE #1

Consider your SLDP project. Is there something about its design that can increase the number of people who would have access to it? Is there a way to produce your design would use fewer resources?



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HOSTILE ARCHITECTURE



- Hostile architecture is an urban-design strategy that employs elements to purposefully guide “unwanted” behavior
- By restricting the physical behaviours they can engage in, it often targets people who use or rely on public space, such as young people and homeless people
- Examples: fencing around buildings, spikes on the ground, few and small seating areas at subway stops



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THINK-PAIR-SHARE #2

What objectives do these designs have?
What role do engineers play in these design processes?



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DESIGN JUSTICE FRAMEWORK

“Design justice rethinks design processes, centers people who are normally marginalized by design, and uses collaborative, creative practices to address the deepest challenges our communities face.”
(Costanza-Chock, 2020)

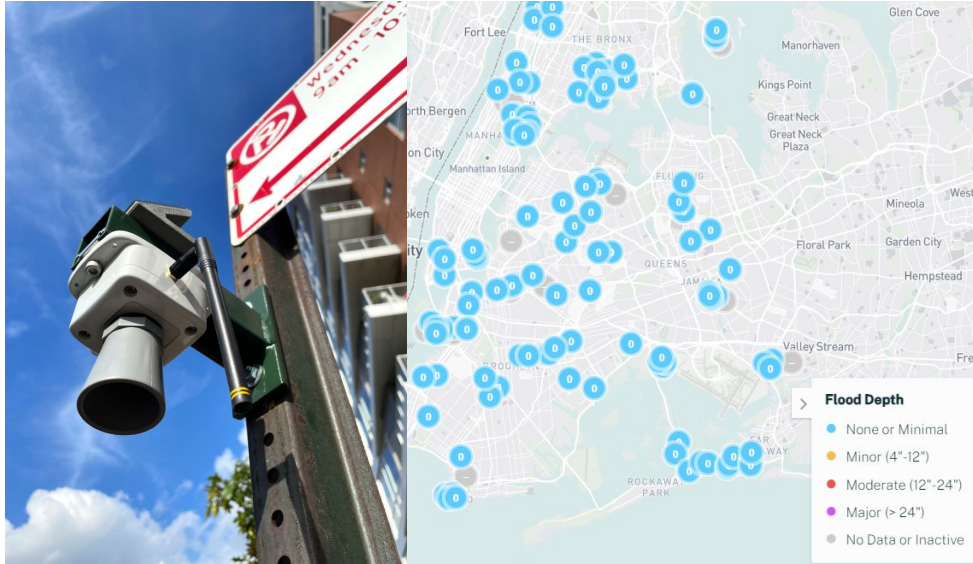


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DESIGN JUSTICE: FLOODNET



- Low cost, open source flood sensors
- Designers in regular dialogue with community members
- Data used to communicate community needs to stakeholders such as policymakers



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ETHICS IN YOUR WORK

- Remember: design is a human-centered process
- Ask yourself:
 - What purpose does this design serve?
 - Who am I designing for?
 - Who else might be impacted by this work?
 - What might the long-term impact of this product or process be?



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Questions?



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16