Development Engineering Discussion
June 8

• Temina Madon and Anustubh Agnihotri
• Building a field
  • Humanitarian Engineering (Civil, Water, Sanitation, Power, Disaster Relief)
  • Development Economists
  • Information Technology for Development
• Open Access Textbook
  • 5 Chapter Authors + 2 Section Editors spoke in class
• Discussion topics
  • What are the main themes from the field
  • Is there background that would have been helpful for this course
  • Feedback on Development Engineering from Software Engineering perspective
## Course Schedule

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<td>Course Introduction</td>
<td>Richard Anderson</td>
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<td>April 6</td>
<td>Engineering the Vaccine Cold Chain</td>
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<td>April 13</td>
<td>Community Cellular Networks</td>
<td>Kurtis Heimerl</td>
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<td>April 20</td>
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<td>May 26</td>
<td>Removing Arsenic from Drinking Water</td>
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<td>Jenny Aker</td>
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Development Engineering

Technological interventions to improve human and economic conditions in low-resource settings

Technical aspects of development engineering
Context for development engineering

How is development engineering practiced in different settings and domain
Course Background

• CSEP 590B: Information Computing and Development
  • 4-unit course in professional master's program
• Approaches to teaching ICTD
  • Domain based: Applications to Health, Agriculture, Communication, . . .
  • Technology based: Basic Phones, Smart Phones, Devices, AI, Cloud technologies
• Opportunity: Development Engineering Course
  • Initial idea – use the in-progress text book
  • Second idea – attempt to get textbook authors present work
• And then the virus struck
  • Course already was scheduled as a distance course
  • Zoom probably made outside speaker scheduling easier
Course reflection

• Engineering Approach
  • Design solutions for identified problems

• Case studies
  • Start with examples, and maybe general principles will follow

• Ecosystem is important
  • Business environment, different stakeholders, process and goals of innovators

• Opportunity to contribute to building Development Engineering
  • Important to have good instructional resources and examples of different types of courses
Over to you Temina and Anustubh