Development Engineering

CSEP 590 B
Open Data Kit
Waylon Brunette & Richard Anderson
May 18, 2020
Today

• Announcements
• Waylon Brunette, University of Washington
• Discussion with Waylon
Announcements

• Discussion Sections – Zoom – Attend one
  • Wednesday: 3:00-4:00 pm
  • Wednesday: 5:00-6:00 pm

• Homework 7, Due May 26.
  • Short paper based on Open Data Kit readings
  • Submit by email
  • Course grade based on 7 of 9 assignments

• Next weeks lecture: Tuesday, May 26.
## Course Schedule

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<th>Date</th>
<th>Topic</th>
<th>Lead</th>
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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>
<td>Remote Temperature Monitoring</td>
<td>Martin Lukac, Nexleaf</td>
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<td>April 27</td>
<td>Election Monitoring</td>
<td>James Long</td>
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<td>May 4</td>
<td>Global Goods Software</td>
<td>Skye Gilbert</td>
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<td>May 11</td>
<td>Voice Based Social Networks</td>
<td>Aditya Vashistha</td>
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<td>May 18</td>
<td>Open Data Kit</td>
<td>Waylon Brunette</td>
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<td>May 26</td>
<td>Water Sanitation and Health</td>
<td>Ashok Gadgil</td>
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<td>June 1</td>
<td>Fintech for Rural Networks</td>
<td>Jenny Aker</td>
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<td>June 8</td>
<td>Development Engineering Discussion</td>
<td>Temina Madon and Anustubh Agnihotri</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
Global Goods Software

• Software designed to support global development
• Provided as a Global Good
  • Open source models predominate
• Robust to infrastructure challenges
  • Poor network connectivity
  • Low cost devices
  • Limited technical capacity
Open Data Kit

• Mobile data management for development organizations

• Platform for organizations to implement solutions

• Project started in 2008, prior to public launch of Android
  • Mobile networks and available devices have evolved considerably since then
Academic Projects in Development Engineering

• Academic incentive structure
  • Create projects that have impact
  • Mentor students
  • Publish research results

• Open Data Kit
  • Started by Professor Gaetano Borriello
  • Research program on mobile applications
    • Need to focus on problems that require innovation
    • Scoping projects at “Phd Thesis” level
  • Challenge of spinning out academic projects in global goods setting
Today – Open Data Kit

• Waylon Brunette
  • PhD student, University of Washington
  • Graduating June, 2020
  • Amazon and Intel Research Seattle experience
  • One of the original developers of Open Data Kit
Over to you Waylon...