Cyber-Physical Systems
USG Investing More Than $200M

• **NSF** - $35M
  • Cyber-physical systems
  • Smart and connected health
  • Critical resilient interdependent processes and systems

• **DOT** - $90M
  • Smart vehicles technology

• **DHS** - $50M
  • Emergency response technologies

• **DOE** - $10M
  • Smart, energy-efficient, low-emission cities

...and many others...
Lu Feng  
Ph.D., Computer Science  
U. of Oxford, 2014

Madhur Behl  
Ph.D., Electrical Engineering  
U. of Pennsylvania, 2016

Brad Campbell  
Ph.D., Computer Science  
U. of Michigan, 2016

Daniel Quinn  
Ph.D., Mechanical Engineering  
Princeton, 2015

Homa Alemzadeh  
Ph.D., Electrical Engineering  
U. Illinois Urbana-Champaign, 2016
Link Lab Initiatives

- **Expeditions** - $10M
  - Internet of Things
- **Major Research Infrastructure** - $3M
  - Connected communities
- **Research Traineeship** - $3M
  - Interdisciplinary CPS education
- **Research Experience for Undergraduates** - $360K+
  - Emergency response technologies
- **UVA Resilience Institute Proposal**
  - Smart cities expertise
- **Industrial Advisory Board**
Foundations for a Smarter Planet

• UVA poised to lead in area of national importance
  • Cyber-physical systems

• Strategic Investment
  • Building on strength
  • Interdisciplinary multiplier

• Enhances UVA mission
  • Research
  • Education
  • Global impact
## Center of Excellence – Investment Needs

<table>
<thead>
<tr>
<th>AMOUNT</th>
<th>ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>$6.0M</td>
<td>8 Faculty Hires</td>
</tr>
<tr>
<td>$4.5M</td>
<td>Lab Space</td>
</tr>
<tr>
<td>$1.0M</td>
<td>3 Research Scientists (3 years)</td>
</tr>
<tr>
<td>$0.3M</td>
<td>Industry Liaison (3 years)</td>
</tr>
<tr>
<td>$0.2M</td>
<td>Lab Staff (3 years)</td>
</tr>
<tr>
<td>$0.2M</td>
<td>Lab Operations (3 years)</td>
</tr>
<tr>
<td>$12.2M</td>
<td>Total Startup (first 3 years)</td>
</tr>
<tr>
<td>$4.8M</td>
<td>SIF proposal</td>
</tr>
</tbody>
</table>

Total Startup (first 3 years): $12.2M

SIF proposal: $4.8M