



Location Powers: Data Science

Session 4 Summary Outcomes/Applications

Ajay K Gupta, CISSP, MBA
HSR.health
Chair, OGC Health WG

Nov 13&14, 2019

Session 4: Outcomes/Applications



- Moderator: Jeremy Morley, Ordnance Survey UK
- Rapporteur: Ajay K Gupta, chair of OGC Health WG

- Wendy Martinez Presentation: Integration of Geospatial Data: Examples and Implications

- Panel on Outcomes :
 - Regan Smyth, NatureServe - Perspective: The Age of Precision Conservation: Applying AI and Collaborative Science to Prevent Species Extinctions
 - Megan Furman, Defense Digital Service, OSD
 - Steven Ward, The Climate Corporation
 - Edward Strocko, USDOT Bureau of Transportation Statistics

- Discussion Groups on Outcomes

Session 4 – 1. What Works



- Merging *Standardized* Data from Disparate Sources:
 - Government (e.g., BLS, Census, DoT, CDC, Core of Engineers, NASS, FAA, Coast Guard, and many others)
 - Crowd Sourced (e.g., Waze)
 - Field Collected (e.g., NatureServe)
 - Private (e.g., Trucking, Shipping)
- For a broad spectrum of applications:
 - Road, Rail Safety
 - Emergency Management
 - Tracking of Contaminants
 - Natural Resource Management
 - Logistics

Session 4 – 2. Open Questions



- Error modeling, bias
- Human knowledge & involvement
 - The calibrated “eyeball” test
 - The “sniff” test
- Data retention, curation, medium, stewardship
- Ethics, privacy

Session 4 – 3. Next Steps



- Need for more standards, data & collection, balanced against potential risks to innovation
 - Right Standards at the Right Time
- Model validity
- Communication on Models, Machine Learning
 - Not a “Human Replacement” but a “Force Multiplier”