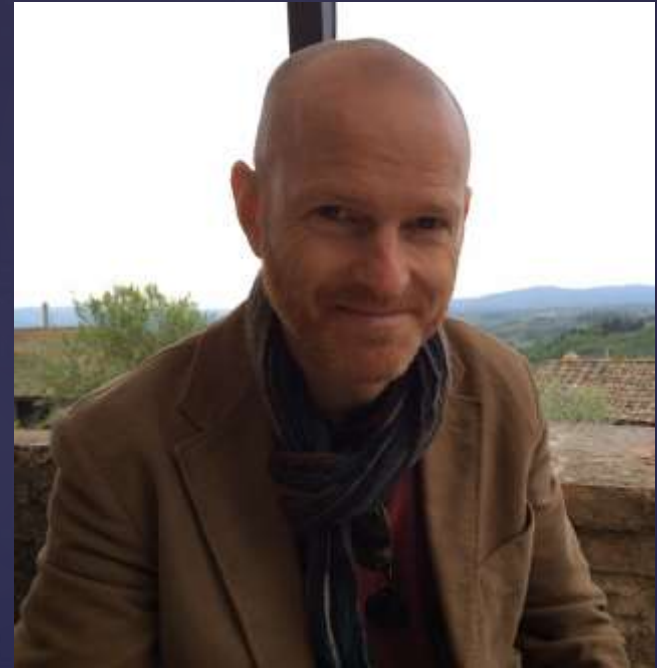


# Looking Back and Looking Forward

Innovative Technologies as a Foundation for PPPs

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March 3, 2015



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# Looking Back...

A Systems Approach to Network Design and Use

# Looking Forward...

End Users and Enabling Partnerships

# Looking Back...

Climate  $\neq$  Weather

# Looking Forward...

Data  $\neq$  Content

Data enables Content

Sector      Agriculture

User         Grower

Content      Plant/Harvest Decision

Data         AWS & Forecast

Sector      Aviation

User      Airline Terminal Operator  
            Airspace Route Manager

Content    Stop/Restart Airport Ops  
            Reroute Flights

Data      Nowcast

Sector      Education

User        Teacher & Student

Content     Weather Curriculum

Data        AWS & Forecast

Sector Energy (Utility)

User Line Repair Staffing Mngr

Content Repair Crew Positioning

Data Nowcast & Forecast



Sector Insurance / Banking

User Claims Adjuster

Content Pay or refuse claim

Data AWS

Sector      Public

User        Citizen

Content     Public Safety Warnings

Data        AWS, Nowcast & Forecast

Sector	Content	Data
Agriculture	Plant/Harvest App	AWS & Forecast
Aviation	Terminal/Airspace App	Nowcast
Education	Curriculum App	AWS & Forecast
Energy	Line Crew Management App	Nowcast & Forecast
Insurance	Claims Adjustment App	AWS
Public	Mobile/Web Apps	AWS, Nowcast & Forecast

1. Public Private Partnerships are essential
2. The data infrastructure is similar and reusable

# Partnerships...

- Suppliers
- Customers
- Product, Marketing & Sales

# Data Infrastructure...

- AWS
- Nowcasts
- Forecasts

# Recommendations...

- Execute, but move beyond basic system repair
- Deep partnership with mobile telecommunications
  - Infrastructure (Hosting, power, comms, security)
  - Alert and content distribution (public & commercial)
- Acquire full data capacity
  - EWS → AWS, Nowcast & Forecast
- AWS → Simple all-in-one sensors & real-time data
- Nowcast → Lightning, not radar, based
- Forecast → Simple 10 day village forecast output
- Utilize cost-effective cloud computing solutions

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