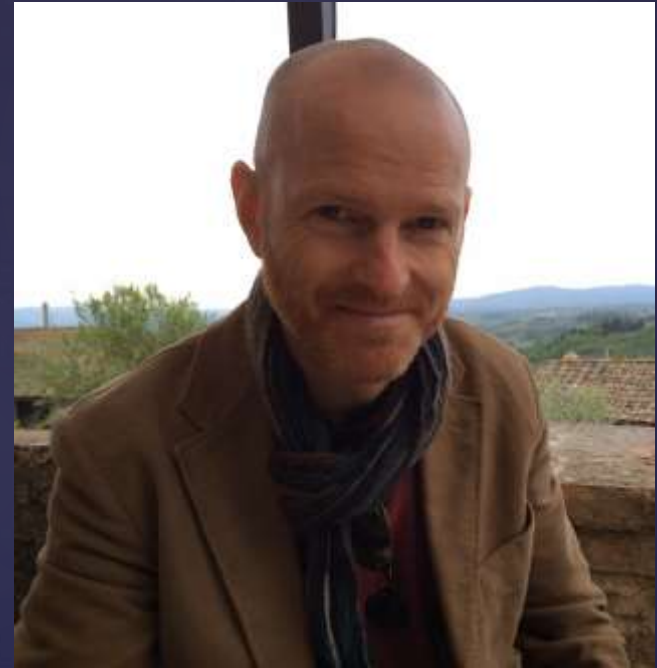


Looking Back and Looking Forward

Innovative Technologies as a Foundation for PPPs

Jeremy Usher
Chief Technical Advisor
Alternative Technologies for Climate Information Systems
CIRDA
jeremyu@yahoo.com

March 3, 2015



Dr. John Snow
Chief Technical Advisor
Meteorology and Climatology

Jeremy Usher
Chief Technical Advisor
Alternative Technologies

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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