Multi-hazard Early Warning System, Water Supply Monitoring & Logistics

Session 6: Good practices of emerging technology applications

Craig McVeigh
CEO Similie
Similie

› Established in 2016
› Private-sector social enterprise
› Technologies to improve the delivery of services to people and by government
› Through public private partnerships
› Digital transformation of organismations
Our technology foundation

One
› Configurable cloud platform
› Powerful analytics
› Visualisation of data
› Action orientated
› Private blockchain

Ai
› Multi-purpose data logger
› Plug and play sensors
› Seamless integration to One - cloud platform
› Remote sensor / logger management
› 3G/4G, LoRaWAN
Water Supply Monitoring System

Improve water supply delivery
Typical application

- Rural, peri-urban, urban.
- Small scale and often gravity-fed.
- Community managed - small repairs.
- Little or no monitoring; poor linkages to water managers or skilled technicians.
- Knowledge of water use behaviour or water management limited.

Results from monitoring

- High temporal resolution of data
- High variability in daily water use.
- Insights to: vulnerability to drought, climate change, source yields.
- Link data to alerts and management actions.
- Real-time dashboards
Multi-hazard Early Warning System

Respond to risks faster
One EWS Features

- API integration
- Live Data Feeds
- Data Visualisation
- Threshold creation and management
- Alert Communication
- Data Sharing and Access Controls
- Dynamic Systemic Configurability
- Designed for a global audience
WMO meteorological station standard - Level 3
Logistics, asset & personnel management

Digital Transformation of the Timor-Leste Military
Personnel Management

Understand & improve organisational readiness

› Personnel Profiles
› Courses
› Organisational positions
› Career progression & pay scales
› Template library
› Document management
› Reporting
› Work histories
› Integration with logistics
Logistics Management System

Asset location, condition, volume & movement

- Inventory Management
- Distribution control
- Purchase orders, movement request
- Work orders
- Stocktakes
- Reporting
What makes Similie’s Tech / ICT approach sustainable?

**People Centered Approaches**

- *Tech is only as good as the people who are trained to use it*
- Change Management methodologies
- Multi-year engagement - Training Needs Assessments; Capacity Development Training; Mentoring
- Organisational assessments
- Link all data to actions
- Build long-term sustainable partnerships
What makes Similie’s Tech / ICT approach sustainable?

**Technology Approaches** - Reliability, affordability, extensibility

- Configurable platform, *not* bespoke technologies
- Cloud based *not* local servers
- *Not* Open-Source Software – often more expensive in long term
- Internet of Things (IoT)
- Designed to work in areas of poor connectivity & low digital literacy
Current partners
THANK YOU