



# ETCorp Presents The GPAC System™

*which provides*

**On Scene Data**

**Any Time, Any Where**

**GPAC**system™

Benefits From  
Simplicity



# The GPAC System™ facilitates and allows:

- true interoperability and asset sharing
- relevant local, state and federal agencies to coordinate expedited emergency response in a cooperative, effective and timely fashion
- real-time intelligence gathering and pro-active decision making

■ Web Browse Into Any Fixed Or Mobile Asset  
To Support Your Operations

■ Capture Sporadic Human Behaviour In A Way  
That Augments Traditional Emergency Response  
and Intelligence Gathering

■ Take The Pain Of Technology Away  
Allowing Focus On Key Operations & Outcomes

# Some GPAC System™ deployments

- Local Councils for Neighborhood Watch and Safer Communities programs funded by the Attorney General's Department (2009)
- Private Investigators (2009)
- Construction and Property Developers for automation of Security and Building Management (2009)
- Western Australia Police – state wide ad-hoc activities - 2009
- DEC - Australia Emergency Response, Mobile real-time Environmental Monitoring and Surveillance (2008)

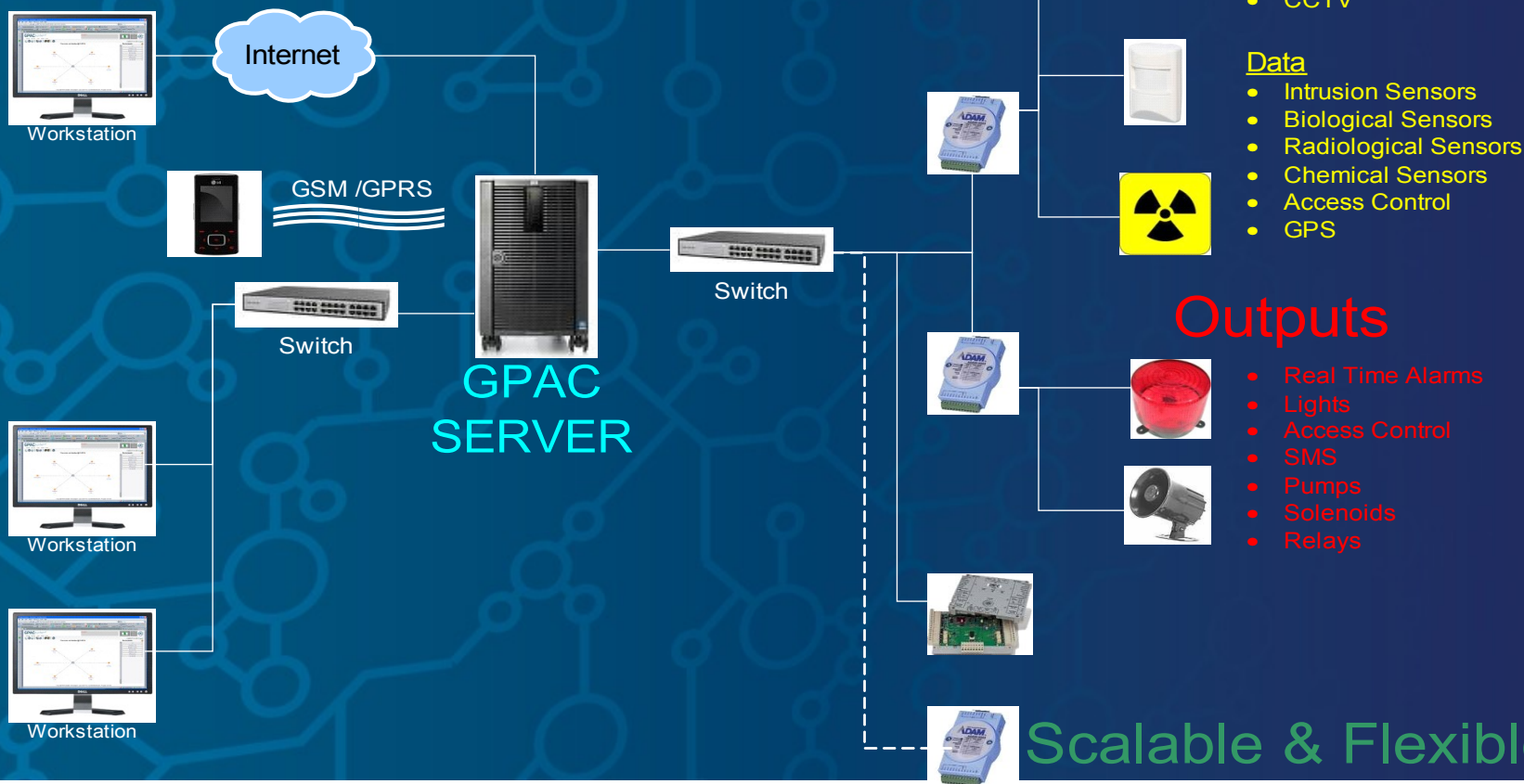
# Some GPAC System™ deployments - cont.

- DHS Lab – used by SDPD for crowd monitoring and control during July 4<sup>th</sup> activities and UAV usage during fire emergencies (07 - now)
- Tested in major US military exercise (Golden Phoenix, San Diego, 2008)
- Tested and Tried by US Navy for interoperability (CWID 2007)
- Awarded By Homeland Security Judges (San Diego Security Summit 2007)
- Deployed across 2 million sq km. To automate remote monitoring and surveillance (Ministry of Interior, Saudi Arabia 2005)
- Port Authority Security Automation – 2004
- First generation deployed for automating research - 2004

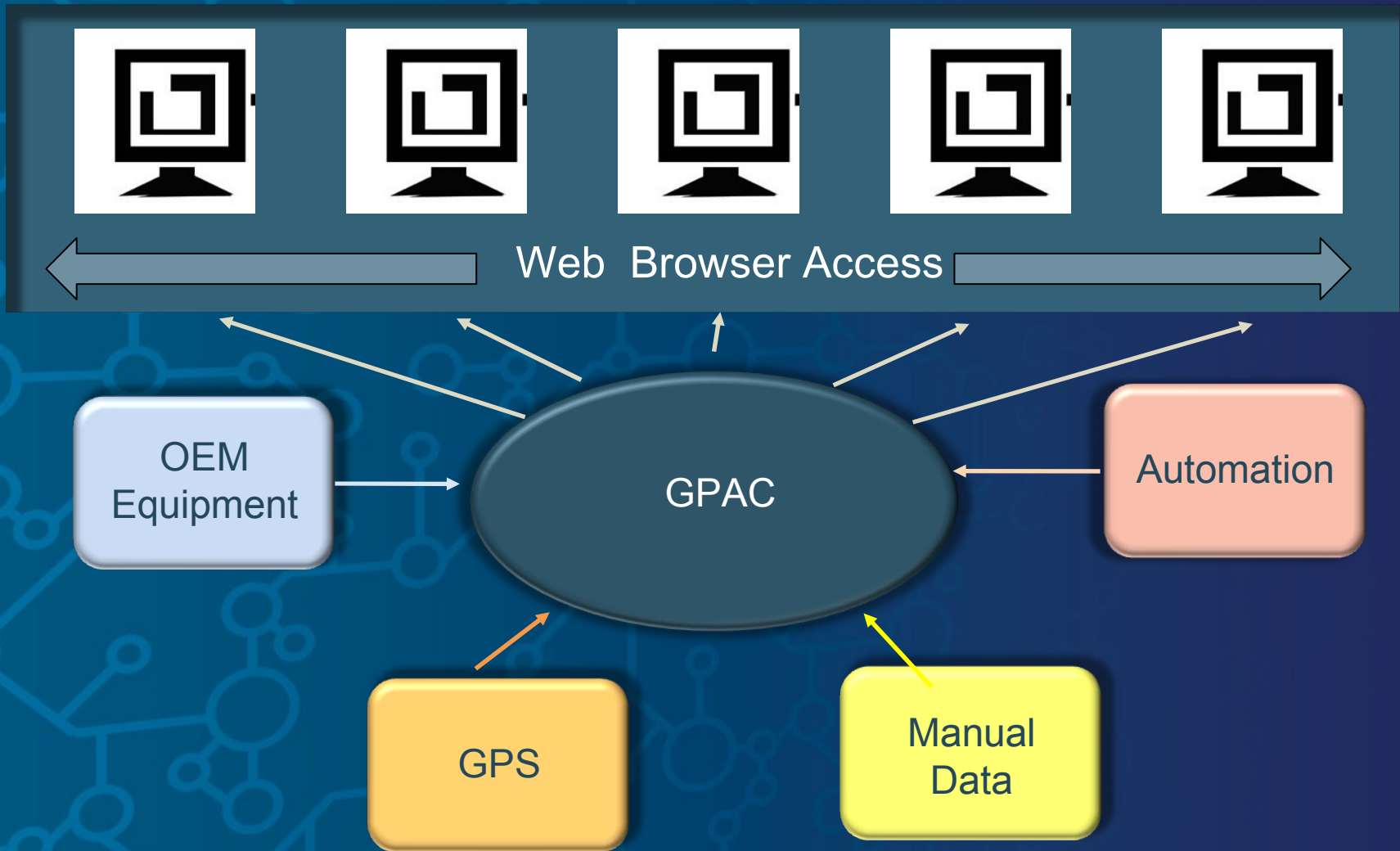
# GPAC System<sup>®</sup> Architecture

## Open Architecture Concept

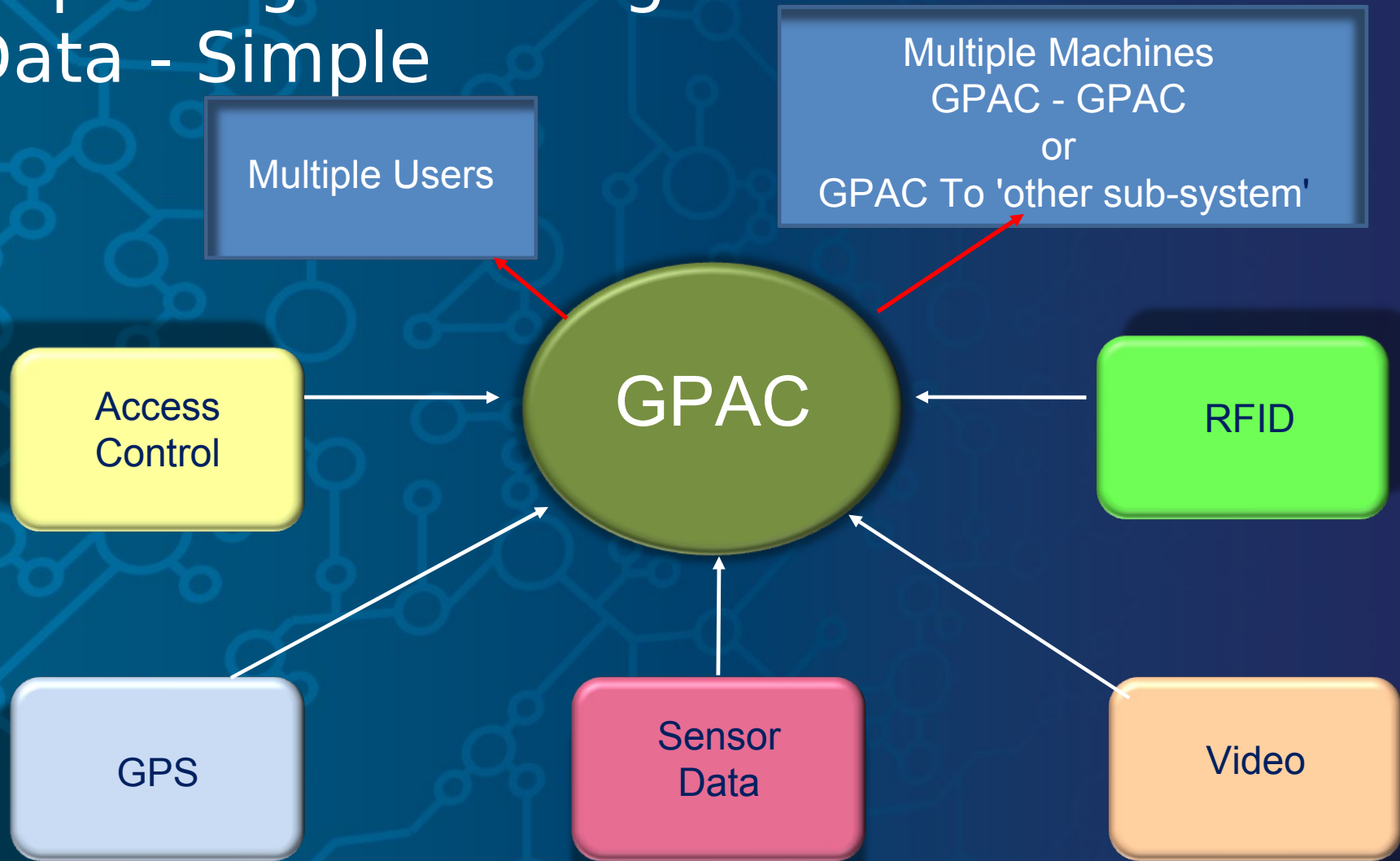
- Maximize Hardware Choice and Minimize Cost
- Plug and Play Devices Maximize Technical Flexibility
- Maximize Useful Life and No Vendor Lock In
- Upgrade Devices with New Capability (e.g. New Cameras, CBRNE)
- Maximize Intelligence Data Sharing



# On Scene Data For Direct Access/Usage



# Capturing & Sharing Data - Simple



# Horizontal & Vertical Hand-offs Make For Long Cycle Times, Excessive Costs & Poor Responsiveness



...crucial time gets lost in the hand-off process between organisations and their units and layers; dispersed operations can add further delays.  
Process time T1 is the line length

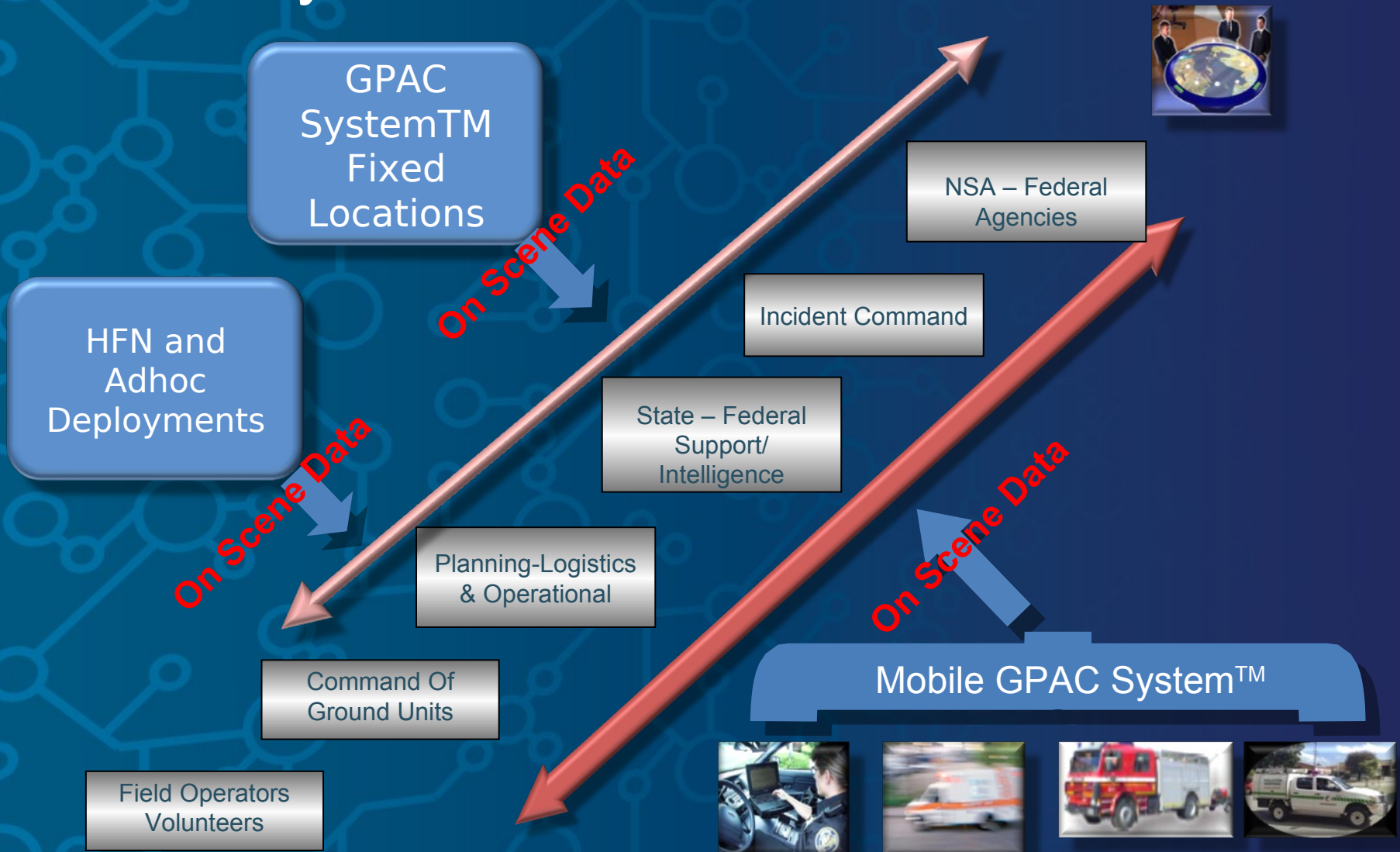
# Good Process Speeds Up Response, Reduces Variability, & Breaks Down Organisational Silos



## On-Scene Data Provided By The GPAC System™

Process automation allows removal of some steps completely. Inter-operability enables the “Right information to the right person at the right time.” Together they permit the shortest path ( $T2 \ll T1$ ) and sharing of capital infrastructure.

# Synchronization Between Levels



# EPA Environmental Surveillance

- EPA Head Office has web access to their vehicles via PDA's.
- Pollution response Vehicle monitoring, real time video, data logs & sensor integration.
- Internet technology a major step foreword.
- Systems were retrofitted to EPA patrol vehicles
- Head-cams for field operatives – extend viewing beyond



- Efficient use and deployment of staff
- Informed decision making
- Proactive response
- Faster response especially with scaling up of response involving other agencies
- Evidence gathering, sharing and availability
- Timely and successful prosecutions



# Physical Interoperability is Here



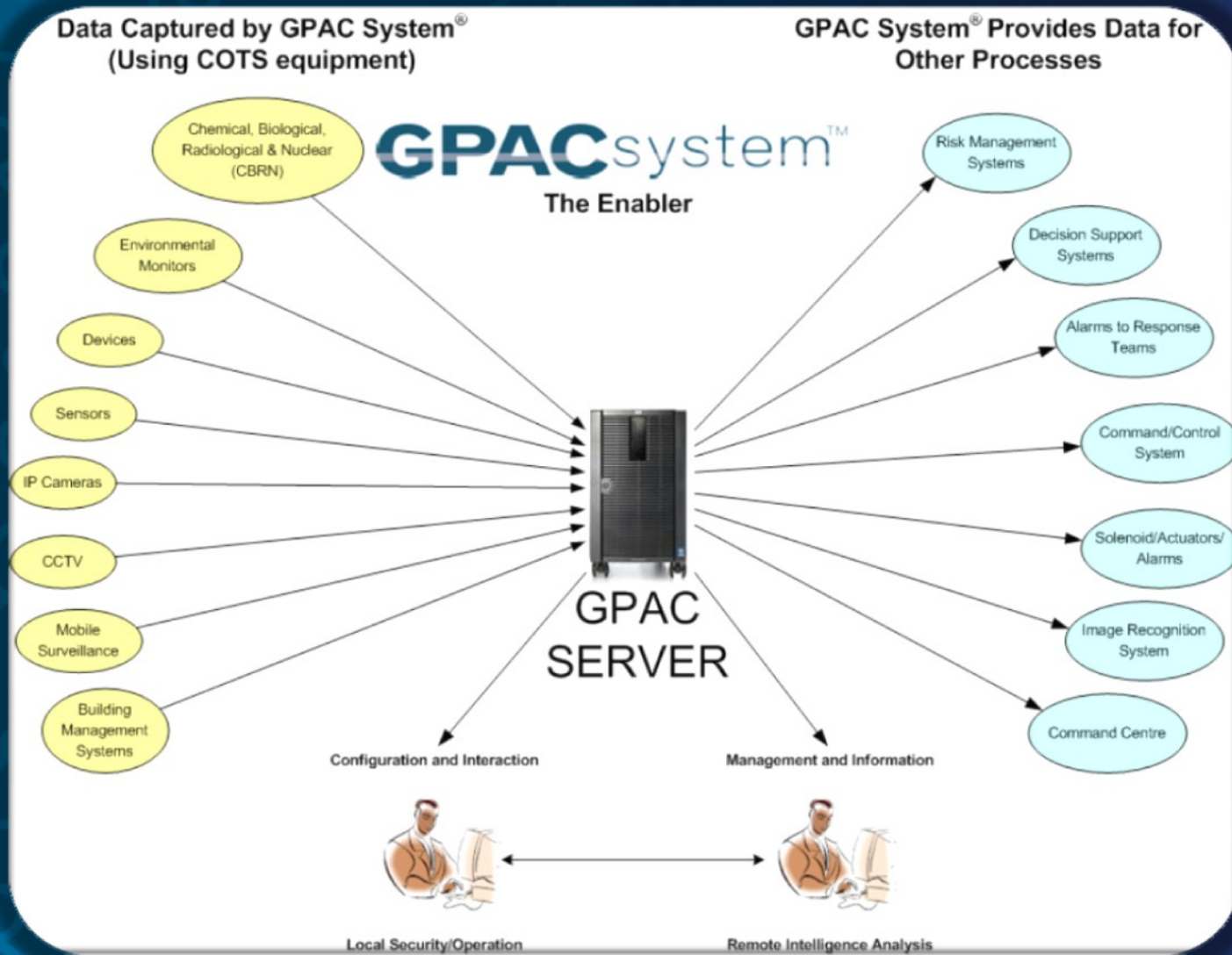
# ATUG Awards Winners Announced

“The Western Australia Department of Environment and Conservation, Pollution Response Unit, has beaten its government agency peers and taken out an Australian Telecommunications User Group (ATUG) award for the best use of broadband.

The department won the award, presented by Communication Minister Stephen Conroy at an ATUG event last night, for its use of management of video and electronic records to coordinate emergency services. The platform integrates sensor and video feeds from vehicles and mobile devices into a single content management platform for operations across the entire state.

*Source: DEC Media Release*

# Data Management



# Proposition

- Free Up Valuable Staff For Other Less Repetitive Tasks
- Reduced Engineering Implementation Costs – Greater Reliability
- Reduced Ongoing Engineering - IT Costs
- Sharing Of Assets Organisationally
- Utilise Current Equipment & Communications
- Reduced Training Costs - Initially & Ongoing
- Continual Improvement
- Less Potential Damage To Staff & Equipment
- Full Audit Trail – Risk Management
- Reduced Communication Costs
- Reduction On Asset Utilisation – Remote Sites
- Grow Incrementally – Reduced Reliability On Capital Outlay

# Real Benefits

- Notification Of Real Time Alarms
- Capturing Odd Events At Odd Times
- Behavioural Triggers – Minimise Checking Data
- Many Systems and Functions integrated into one
  - “Swiss Army Knife” approach
  - Save Power weight and space
  - Train for one system to deliver many functions
- Resource & Equipment Sharing – True Interoperability
- Extensive Forensics and Audit trail - Risk Management
- True Cost Of Ownership – Minimal On Going Costs
- Flexibility For The Future – Expandable - Reusable

# Conclusion

- Here & now technology
- Tried & tested
- True ownership
- Low cost access to information
- Non threatening
- Open system
- Proactive
- Total Flexibility and Scalability
- Horizontal ICT infrastructure and services to support and enable interoperability across agencies / groups with 3 basic components



Environments

Modules & Cameras

Triggers

.... Wait For Alerts – Implement Response Plan ....



ETCorp AU Vehicle



DEC



ETCorp AU Office



GFLAK Back Pack

Live Demos

...where do you want to go today...



Demo GFLAK



San Diego DHS Lab



City Of Belmont Mobile and Fixed



Private Residence Margaret River

Thank You

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