Technology Webinar

MGA

America's Smartland

Midwestern Governors Association

July 24, 2018

The Smartland: Prepared, Agile and Empowered for the Future - Workforce, Infrastructure, Energy & Life

http://www.midwesterngovernors.org/chairagenda.htm

http://www.midwesterngovernors.org/AgileWorkforce.htm

Ohio | Department of Developmental Disabilities

The Next Horizon:

From Wheelchair Ramps to Supportive Tech, How Technology First is Changing Ohio's Service Landscape

John Martin, Director
Ohio Department of Developmental Disabilities

Federal laws like the Americans with Disabilities Act have gone a long way to ensure that people with disabilities are guaranteed equal access and opportunity.

Addressing barriers to inclusion

- curb cuts
- accessible buildings
- parking spots
- integrated schools
- integrated employment
- community living
- accessible housing
- money follows the person
- voting rights

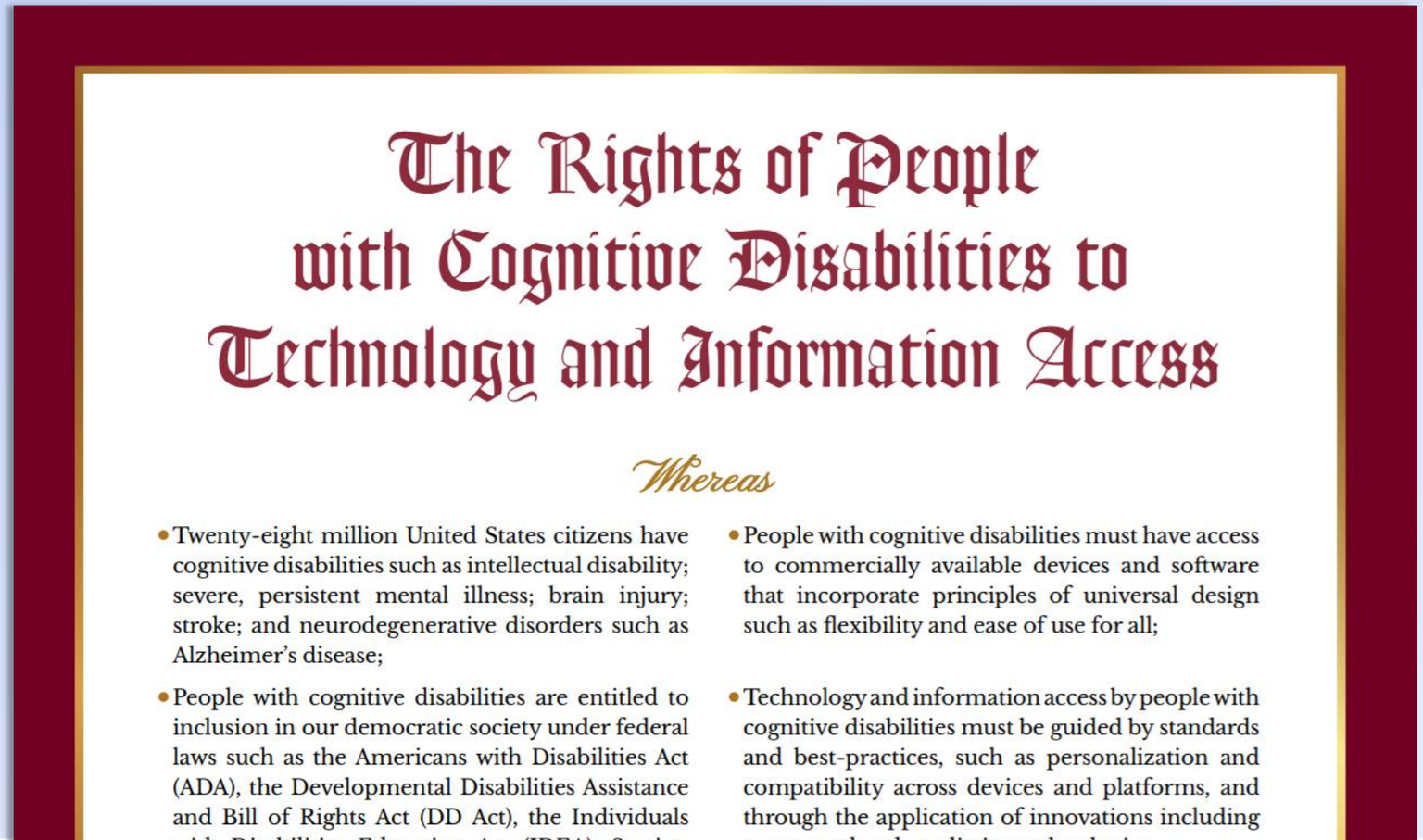
In 2013, the Coleman Institute, with its issuance of *"The Rights of People with Cognitive Disabilities to Technology and Information Access",* challenged the DD community to think about the right to access technology in the same way we think

about the right to

access buildings.

2013 Coleman Institute [Proclamation](), Extending the ADA

http://www.colemaninstitute.org/wp-content/uploads/2017/01/TheDeclaration.pdf



The Rights of People with Cognitive Disabilities to Technology and Information Access

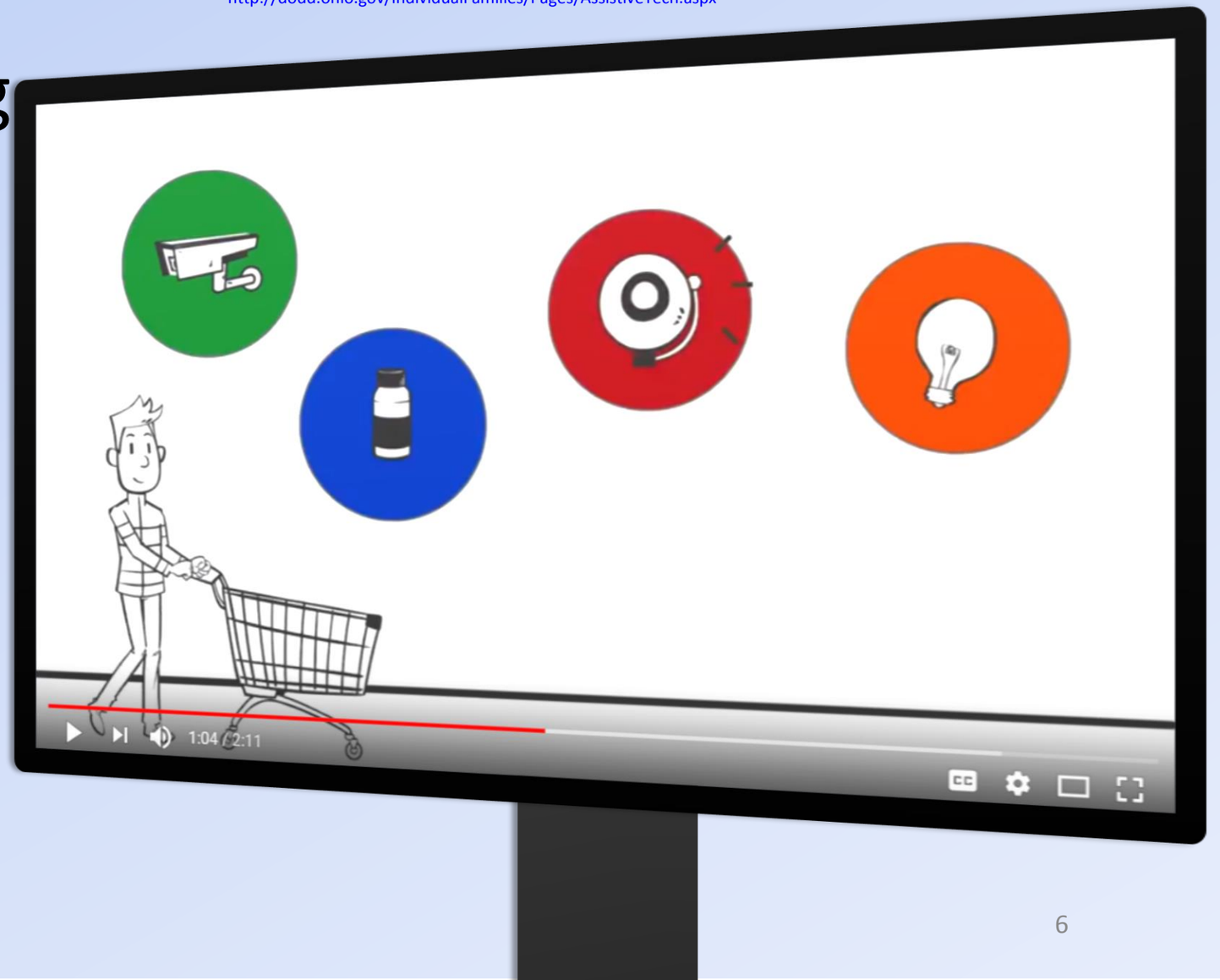
Whereas

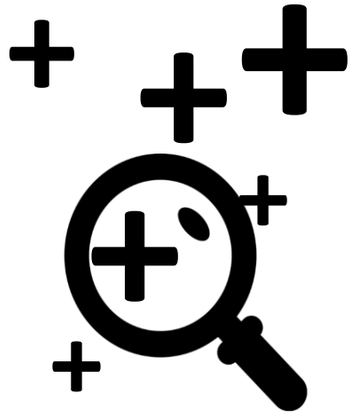
- Twenty-eight million United States citizens have cognitive disabilities such as intellectual disability; severe, persistent mental illness; brain injury; stroke; and neurodegenerative disorders such as Alzheimer's disease;
- People with cognitive disabilities are entitled to inclusion in our democratic society under federal laws such as the Americans with Disabilities Act (ADA), the Developmental Disabilities Assistance and Bill of Rights Act (DD Act), the Individuals
- People with cognitive disabilities must have access to commercially available devices and software that incorporate principles of universal design such as flexibility and ease of use for all;
- Technology and information access by people with cognitive disabilities must be guided by standards and best-practices, such as personalization and compatibility across devices and platforms, and through the application of innovations including

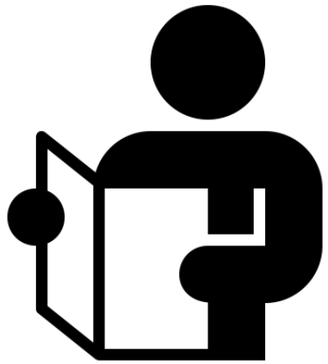
Ohio began slowly, with three years of careful exploration, incorporating technology through Remote Monitoring services, available in home and community-based waivers beginning in 2013.

DODD's Remote Monitoring Animation

http://dodd.ohio.gov/IndividualFamilies/Pages/AssistiveTech.aspx







Followed by

- assessment,
- evaluation,
- and promotion

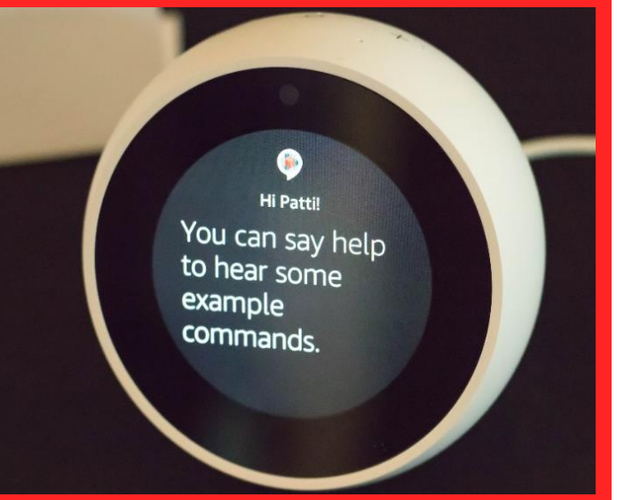
of available technology services.

EMPLOYMENT FIRST

Building on the idea of "employment first, not employment only" we asked the Governor to consider making Ohio a Technology First state.

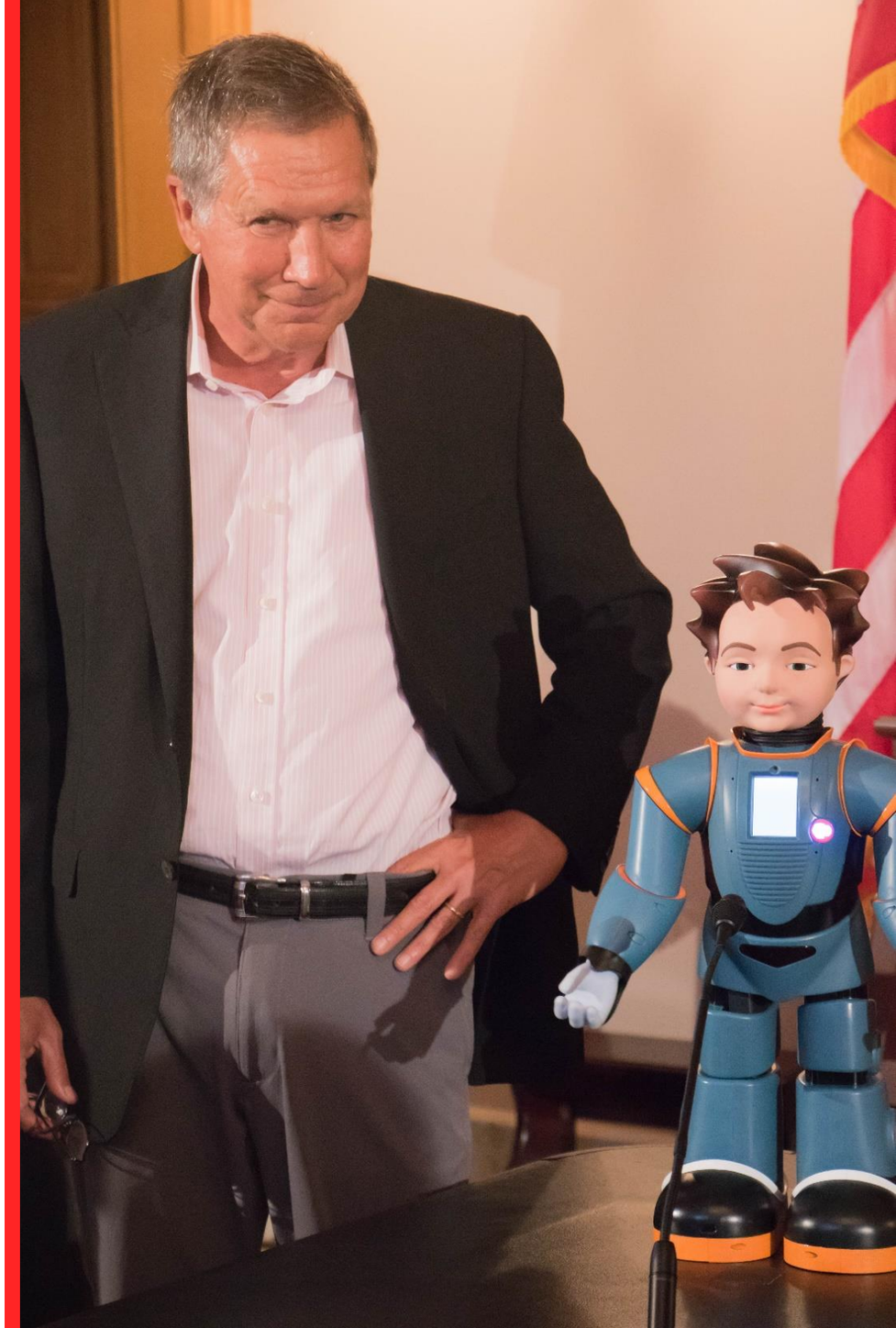
At Person-Centered Planning Meetings, support teams should look to *technology first* when planning for support needs.

Many people will need and desire the support of a staff person.



Current support plans incorporate

- sensors,
- cameras,
- and even robots!



“I can keep on doing my thing with my life.”
-Patti

Resulting in

- better quality of life,
- and less cost.

Nick Hegemier, P.E.

Managing Director – Infrastructure / Vehicle Deployment

Fred Judson

Managing Director – Unmanned Aircraft

DriveOhio

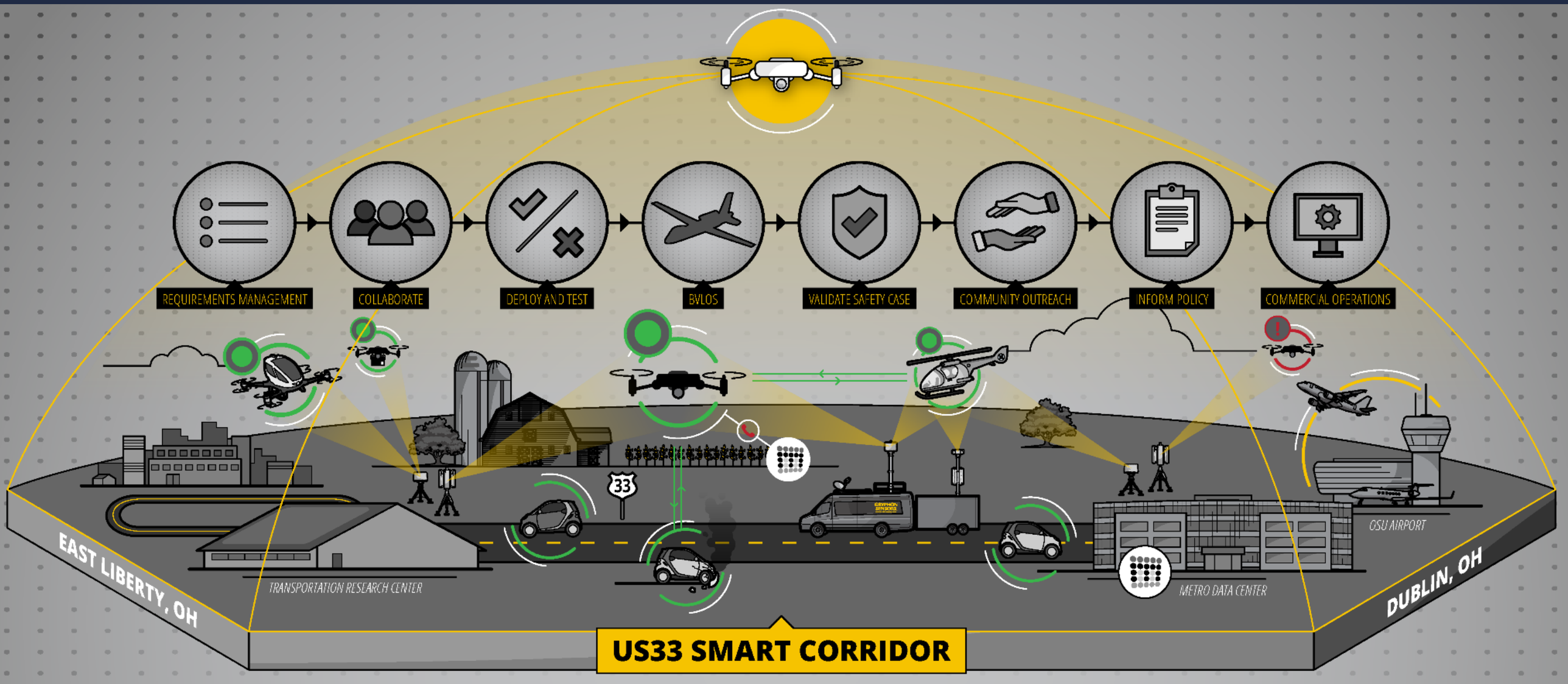
The Future of Smart Mobility

UAS Center

Integrating ITS into Smart Mobility

Existing ODOT Road Weather Info System – 172 sites
ODOT Existing Traffic Cameras – 670 sites
Wrong Way Sensors
Over Height Vehicle Sensors

Unmanned Aircraft Traffic Management Solutions for the State of Ohio



Unmanned Aircraft Traffic Management Solutions for the State of Ohio

TCL1

Remote Population

Low Traffic Density

Rural Applications

Multiple VLOS Operations

Notification-based Operations

TCL 2

Sparse Population

Moderate-Low Traffic Density

Rural / Industrial Applications

Multiple BVLOS Operations

Tracking and Operational Procedures

TCL 3

Moderate Population

Moderate Traffic Density

Suburban Applications

Manned/Unmanned BVLOS Operations

Detect and Avoid

Public Safety Operations

TCL 4

Dense Population

High Traffic Density

Urban Applications

Dense Urban BVLOS Operations

Large Scale Contingency Management

Unmanned Aircraft Traffic Management Solutions for the State of Ohio

Sensor Performance Comparison

	DF SPECTRUM SENSING	ACTIVE RADAR	PASSIVE RADAR	MULTISENSOR SUITE
Range				
System Complexity				
All Weather				
Hovering Target				
Autonomous Target				
Target Adaptability				
Line of Sight Tolerance				
Accuracy				
RF Spectrum Usage				
Classification				

= GOOD = FAIR = POOR

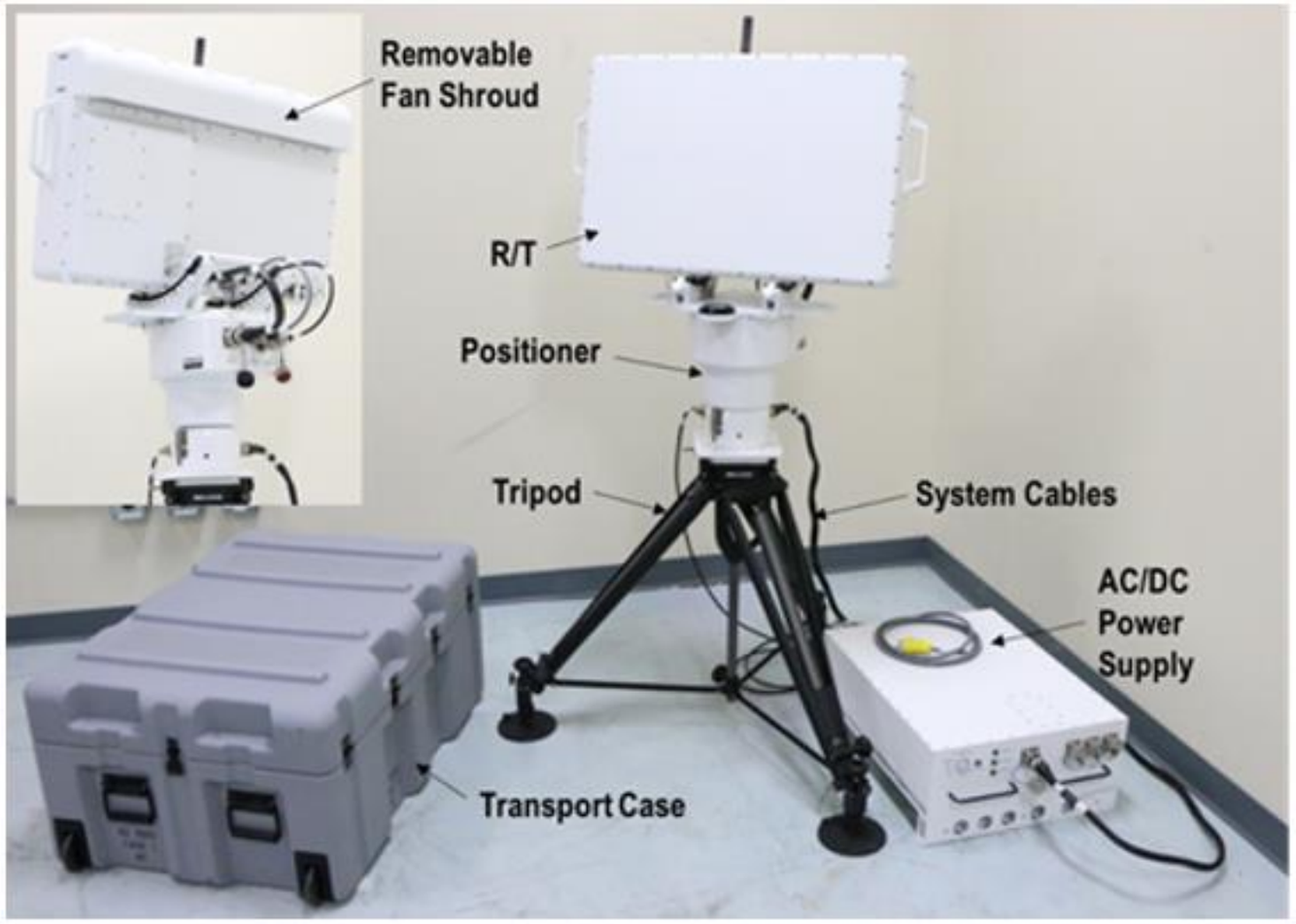


Figure 6: R1400 System Components.

QUESTIONS?

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Questions & Answers

In-Person Meeting

September 19-20 – Columbus, Ohio

http://www.midwesterngovernors.org/AgileWorkforce.htm