

Innovation in AES



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$$\text{Innovation} = \lim_{\text{Regulations}} (\$ \$ \times \textit{People})$$





#1

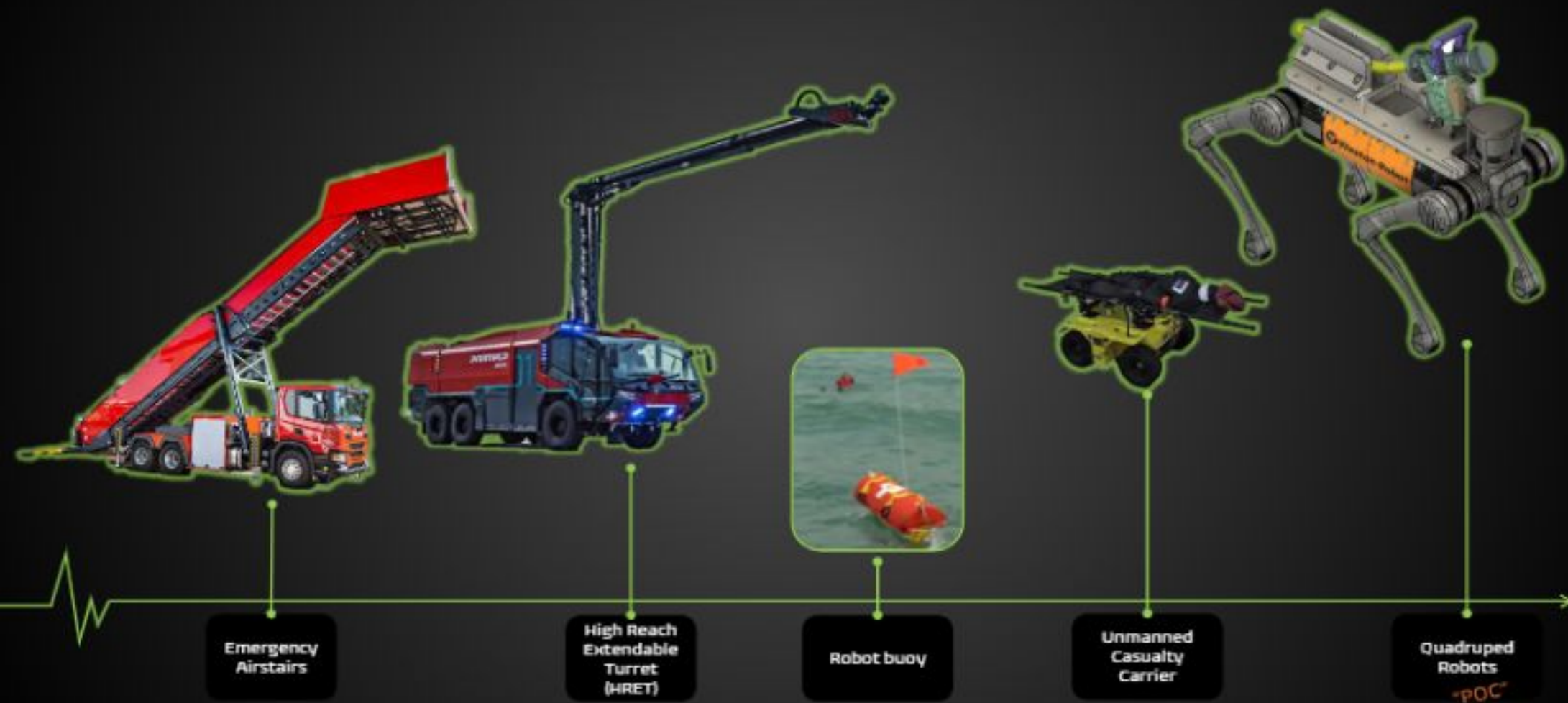
Innovation is not
new..



#1

... and
Innovation
should not be
scary..

Snapshot of AES Robotics Timeline



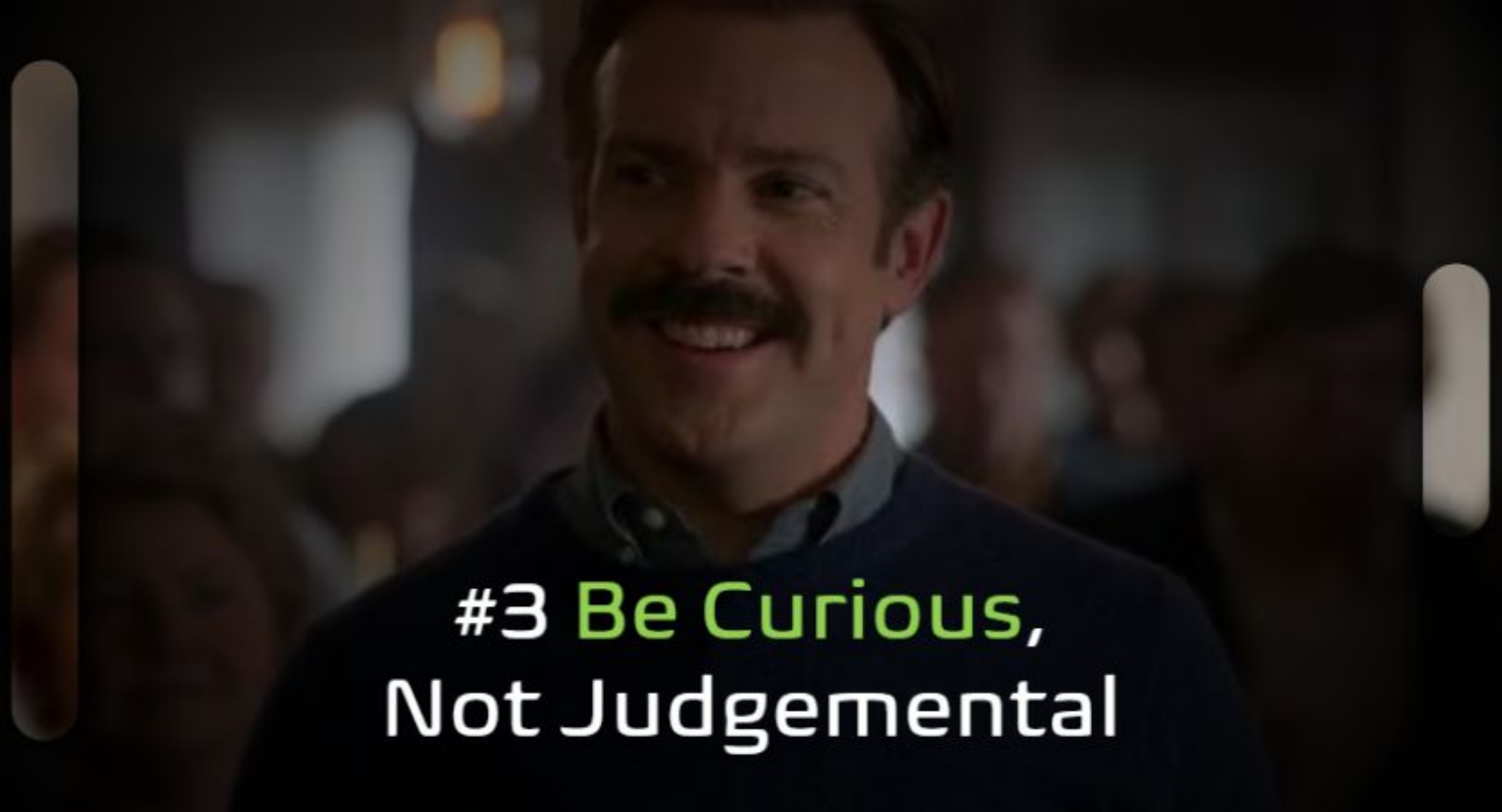
A firefighter in full gear, including a red helmet and black jacket, is sitting in a blue armchair. They are holding a fire hose and spraying water at a large, multi-story building that is on fire. The scene is dark and smoky, with bright orange flames visible from the building's windows. A blue water bottle is on the ground in the foreground.

#2 Embrace
Responsible
Laziness



gency Service CHANG



A man with a mustache is smiling and looking slightly to his left. He is wearing a dark blue sweater over a collared shirt. The background is a blurred crowd of people in a dimly lit indoor setting, possibly a social gathering or event. The lighting is warm and focused on the man's face.

#3 Be Curious,
Not Judgemental



Thomas Edison National Historical park [Public Domain]



Thomas Edison National Historical Park [Public Domain]

By Lewis Backus, Backus Studios, restored by [Lewis Backus](#), [Wikimedia Commons](#)



Our first operational trial at Ex Bear 23



Let's revisit these areas.. What can we salvage from this?

And...



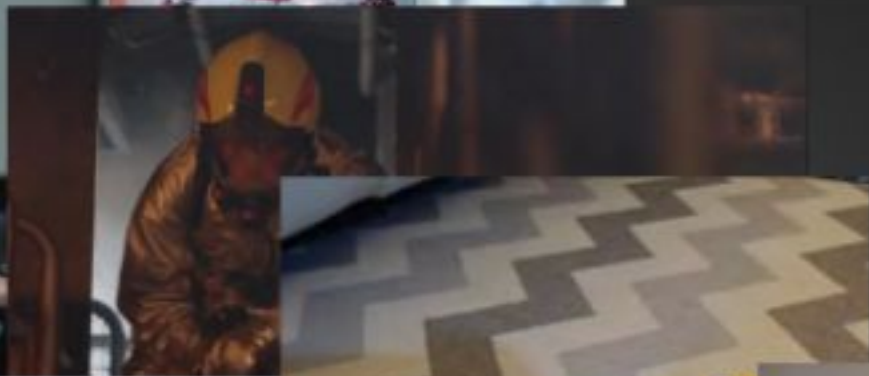
#4 Play











Unmanned Aircraft Systems

Unmanned Aircraft Systems

Fixed Point



Short Range



Long Range (BVLOS)



Unmanned Aircraft Systems

Fixed Point



Short Range



Long Range (BVLOS)



Heavy Lift



A MANNED – UNMANNED (MUM) FUTURE

AI-assisted target-locking and
foam application

Drones with special payloads

Self-Deployed Rapid
Response Shelter

Unmanned Ground Vehicle
(Logistics / Robot Carrier)

Unmanned Firefighting
Machine for Hangar
and AI-assisted foam
blanket application

Unmanned Ground Vehicle
(Casualty Evacuation)

Quadruped Robot with firefighting
and casualty drag capability



Thank YOU



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