

Maker Scenarios

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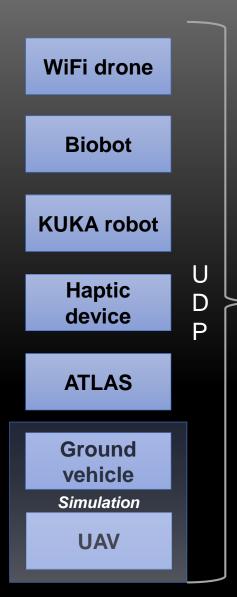


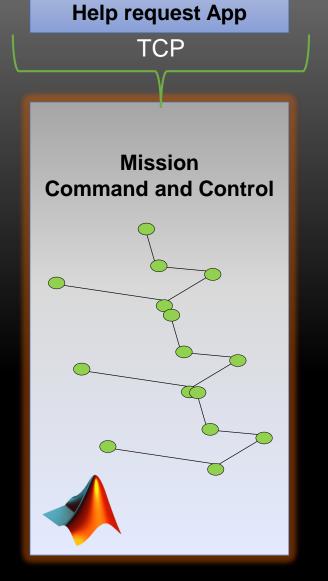


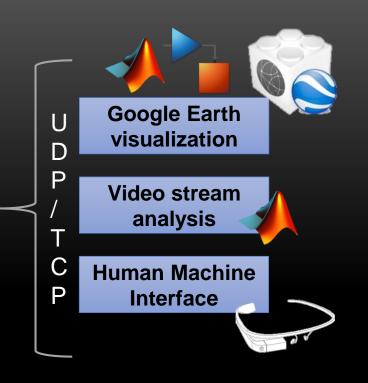




SERS Architecture







SERS Software Architecture









Simulation and visualization

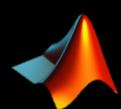
User interface

Optimization of resources

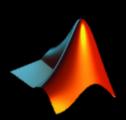
Hardware integration

Requests

Helpers







- 1. Optimization of rescue devices
- 2. Adding your own component to SERS
- 3. Driving your own car in 3D



- 1. Optimization of rescue devices
 - see recording
- 2. Adding your own component to SERS
- 3. Driving your own car in 3D



- 1. Optimization of rescue devices
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- 2. Adding your own component to SERS
- 3. Driving your own car in 3D



Adding your own component to SERS



- 1. Create your own **asset** (folder and instance)
- 2. Instantiate it on the UI (sprite it)
- 3. Show it:
 - Adjust Simulator
 - Instantiate it on MissionMap
 - Add to executing the demoMission



- 1. Optimization of rescue devices
 - see recording
- 2. Adding your own component to SERS
- 3. Driving your own car in 3D
 - see recording



Driving your own car in 3D



- 1. Create your own device model in Simulink
- 2. Find an object in 3D warehouse to represent this device
- 3. Instantiate the object in Google Earth using the interface
- 4. Provide a set of waypoints for the object



Press coverage

In progress:

- Scientific Computing
- Phys.org
- PSFK
- Huffington Post and NSF
- SCS Newsletter
- SummerSim 2014 wrap-up of SCS
- SERS talk at the SmartAmerica Expo 2014
- Desktop Engineering article
- Design News blog

June 2014:

- NextGov
- State Tech magazine
- Science Magazine
- FedScoop
- Commerce
- IT Business Net
- IEEE Spectrum
- Information Week
- PR Web
- FastCompany
- Wall Street Journal
- IEEE CiSE article

May 2014:

- Communications of the ACN
- LiveScience
- Yahoo! News
- Discovery
- Science Magazine
- Gizmag
- Fox News
- IEEE Spectrum
- Fast Company
- WPI News
- Eureka Alert
- PDDnet
- UW News
- Evaluation Engineering



Press coverage

"A demo of the emergency response system ... was on display along with 23 other projects. Some parts of this already existed as separate projects," Park (U.S. CTO) said of the response system."

NextGov

"The SERS team ... epitomizes the kind of cross-fertilization that Mulligan and Rhee were hoping for."

IEEE Spectrum

"Stop me if you've heard this one before: A cyborg dog, an aerial drone, and a robot walk into a bar and ..."

Science Magazine





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