

























VOLVO

Exploration initiative in collaboration with **Volvo Construction Equipment** 

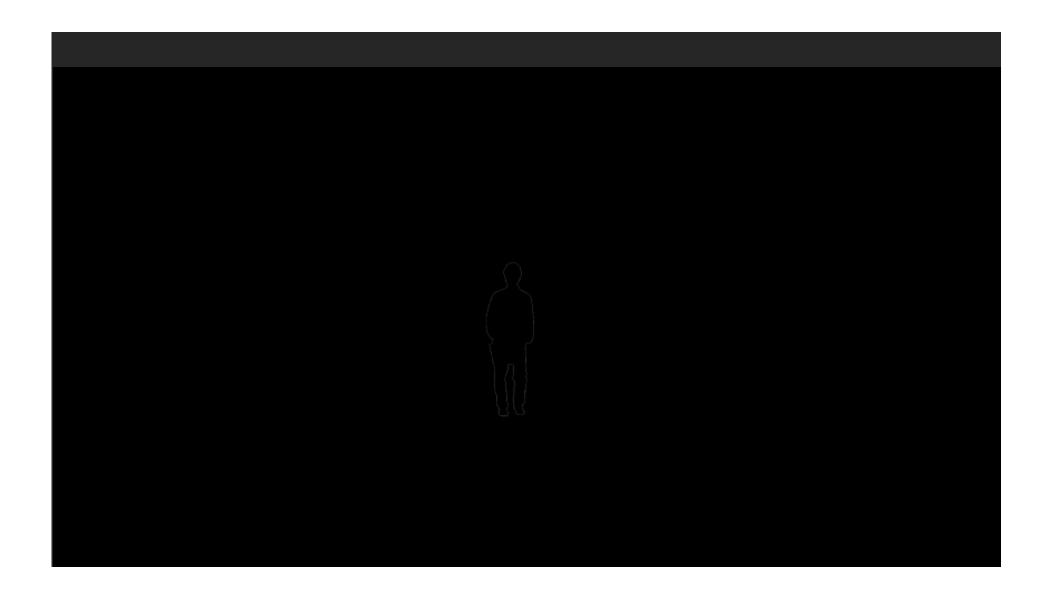




### The Problem

- Dynamic construction sites
- also a problem for



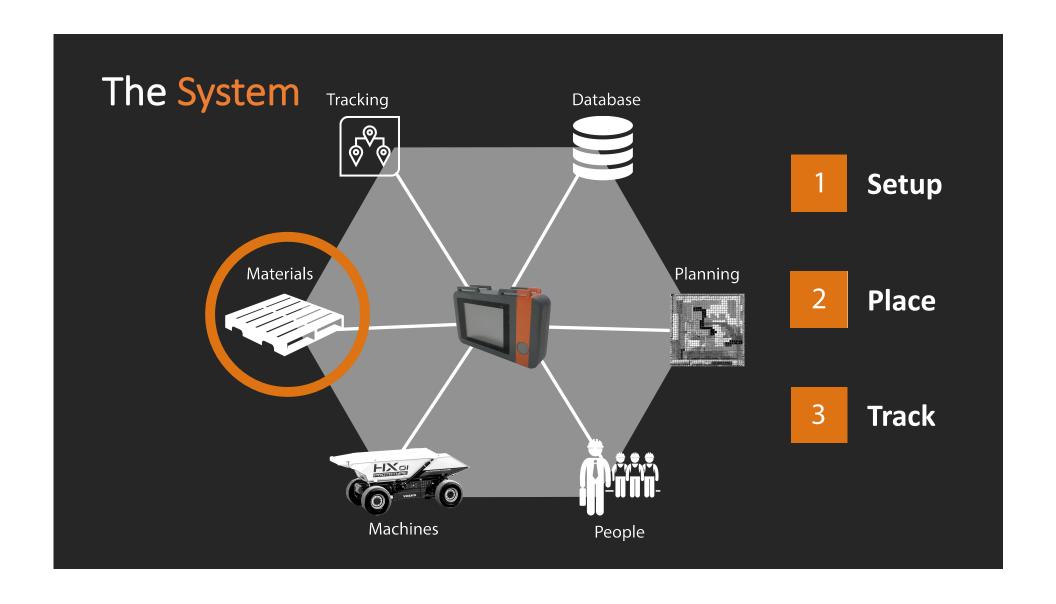


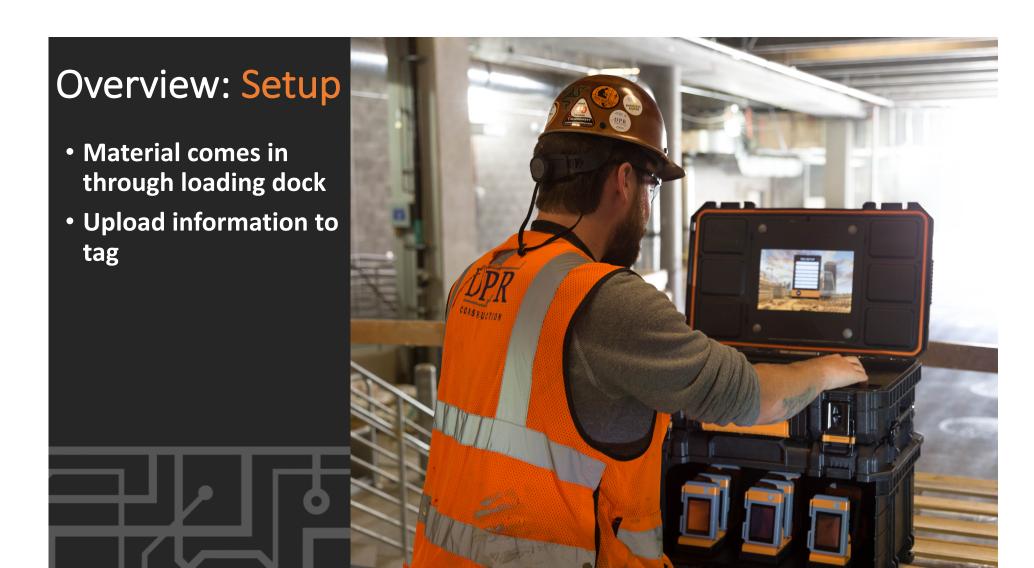


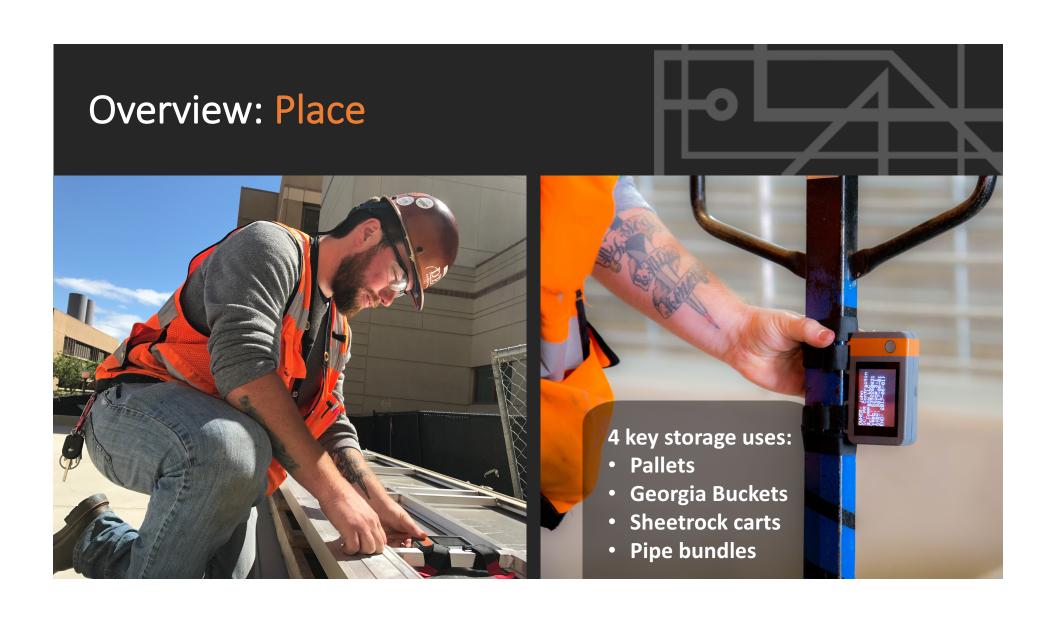
### **Big** Impact

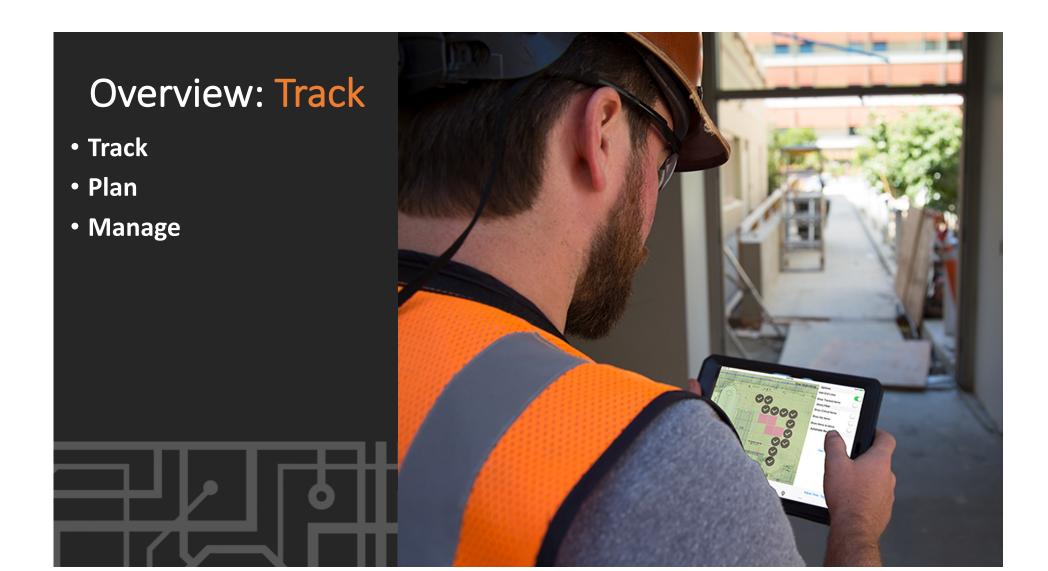
- Will revolutionize all phases of a project
  - Planning
  - Production
  - Finalizing
- Bring value to the industry and society





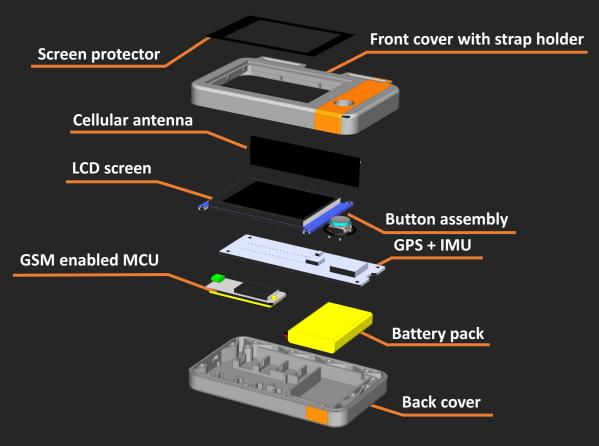


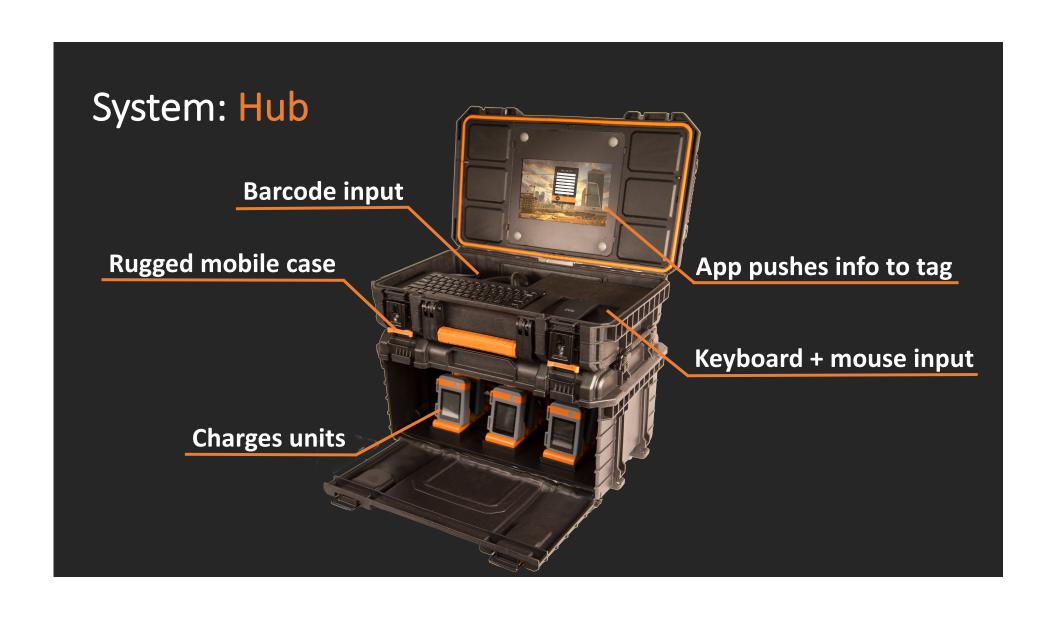






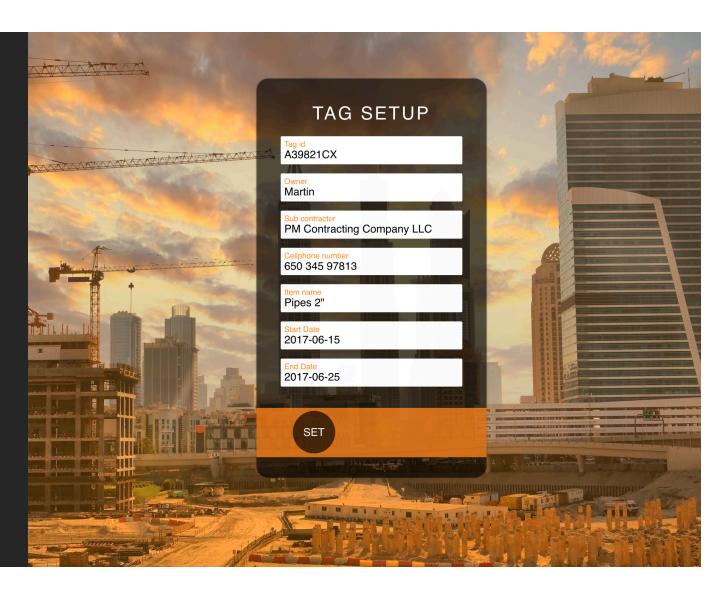
## System: Tag

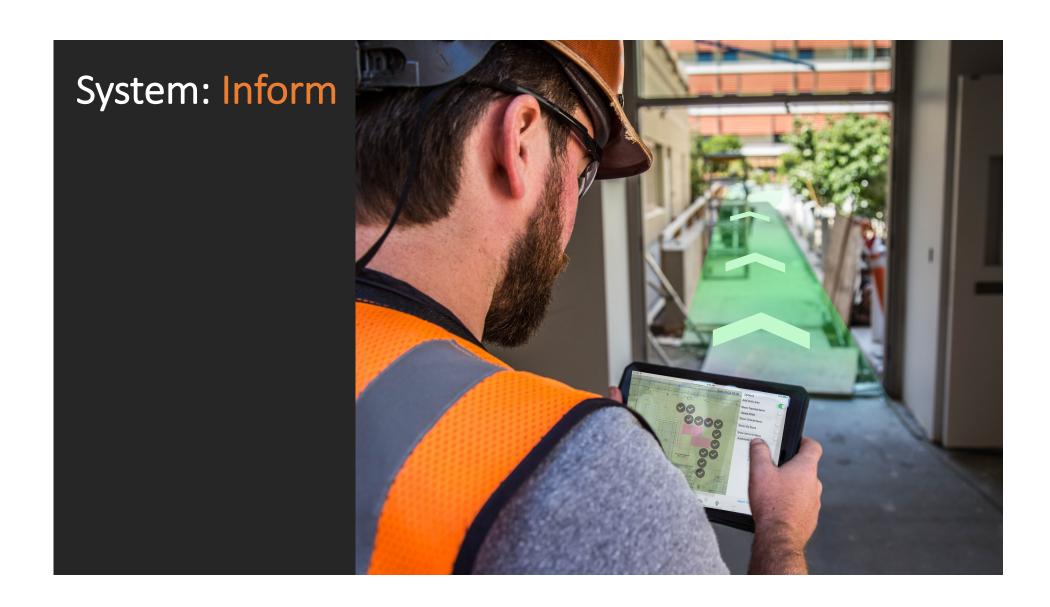




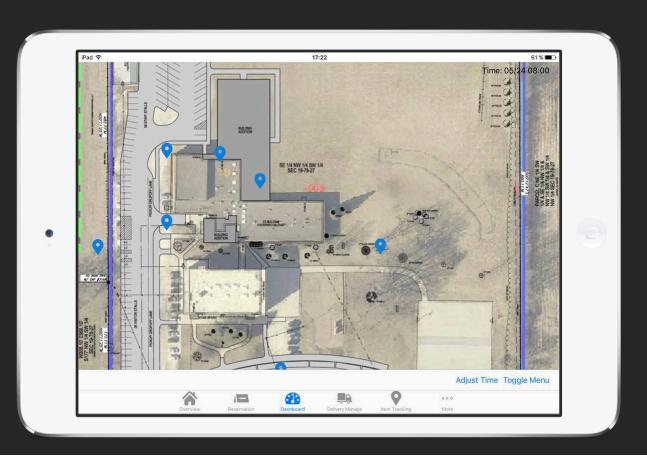
## System: Hub

- Integrates delivery
- Upload to device

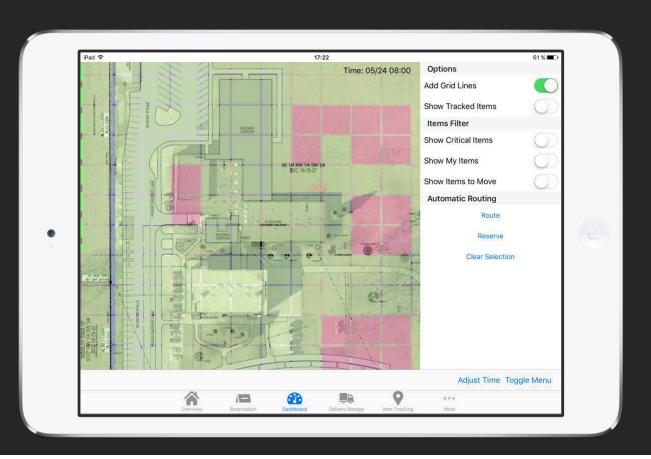




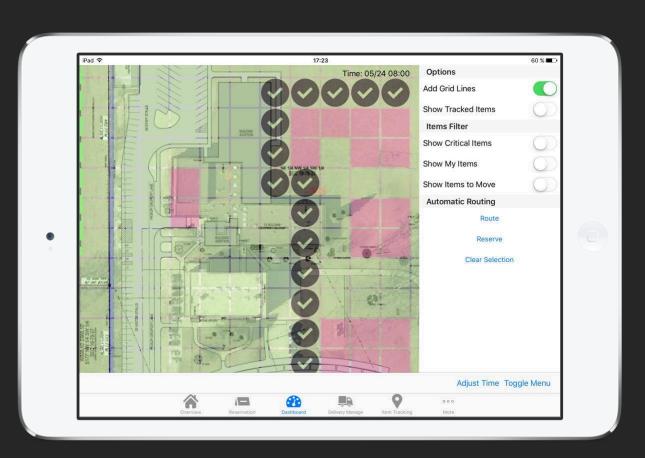
## System: Track items



## System: Reserve Space

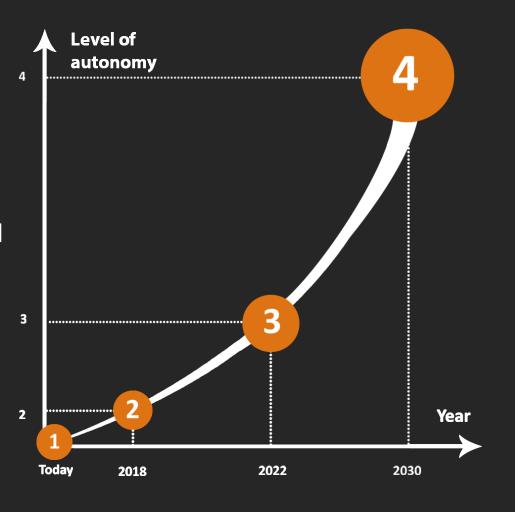


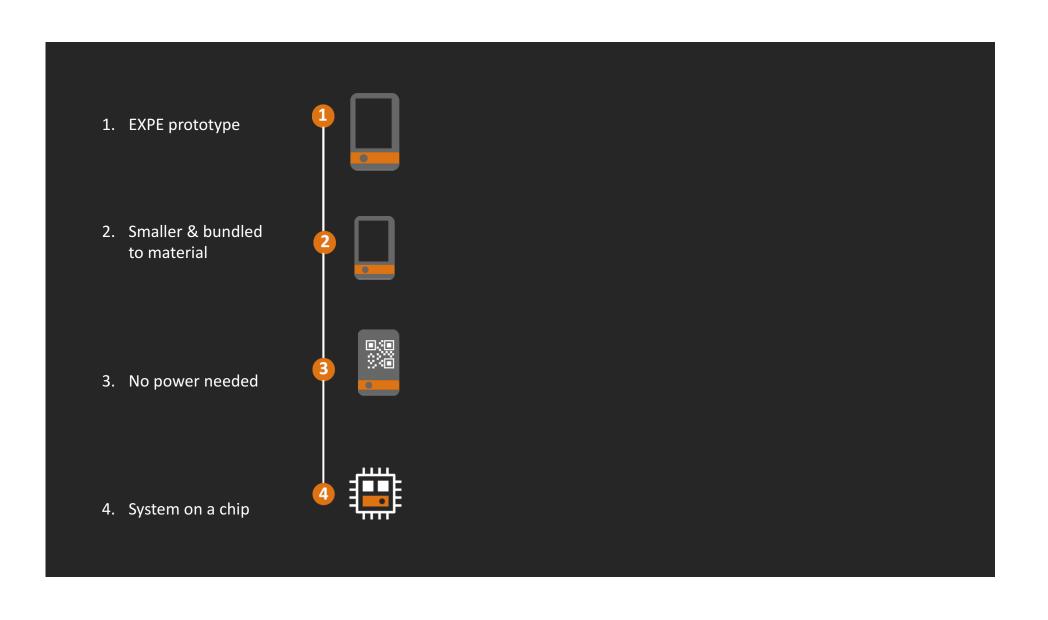
## System: Plan routes



### **Going Forward**

- 4. Work site fully digitalized
  - 10x site operation reached
- 3. Automated machines deployed
  - Utilize infrastructure
- 2. Product in use globally
  - Laying the foundation
- 1. Prototype, ME310 EXPE





#### Thanks

#### Teaching team:

- George Toye
- Larry Leifer
- Kate Stephenson
- John Richardson
- Christian Johansson

- Samuel Frishman
- Nick Azpiroz
- Danee Kenyon
- Teresa Tombelli
- Ryan Ruvald

#### Sponsors:

- Jenny Elfsberg
- Martin Frank

#### DPR partners:

- Jonathan Mayfield
- Salman Usmani

# Questions?

For more, please stop by our booth across the street!