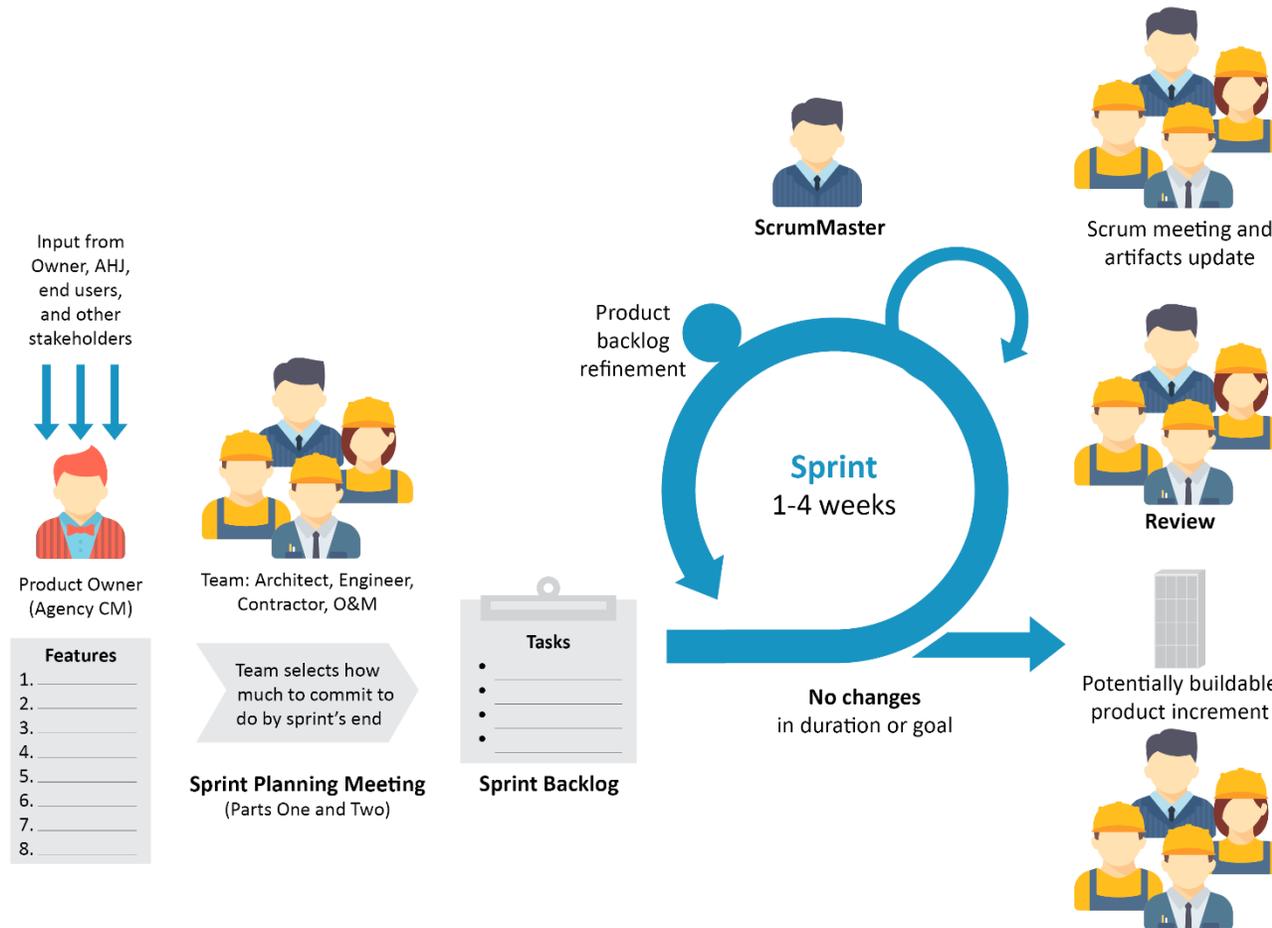
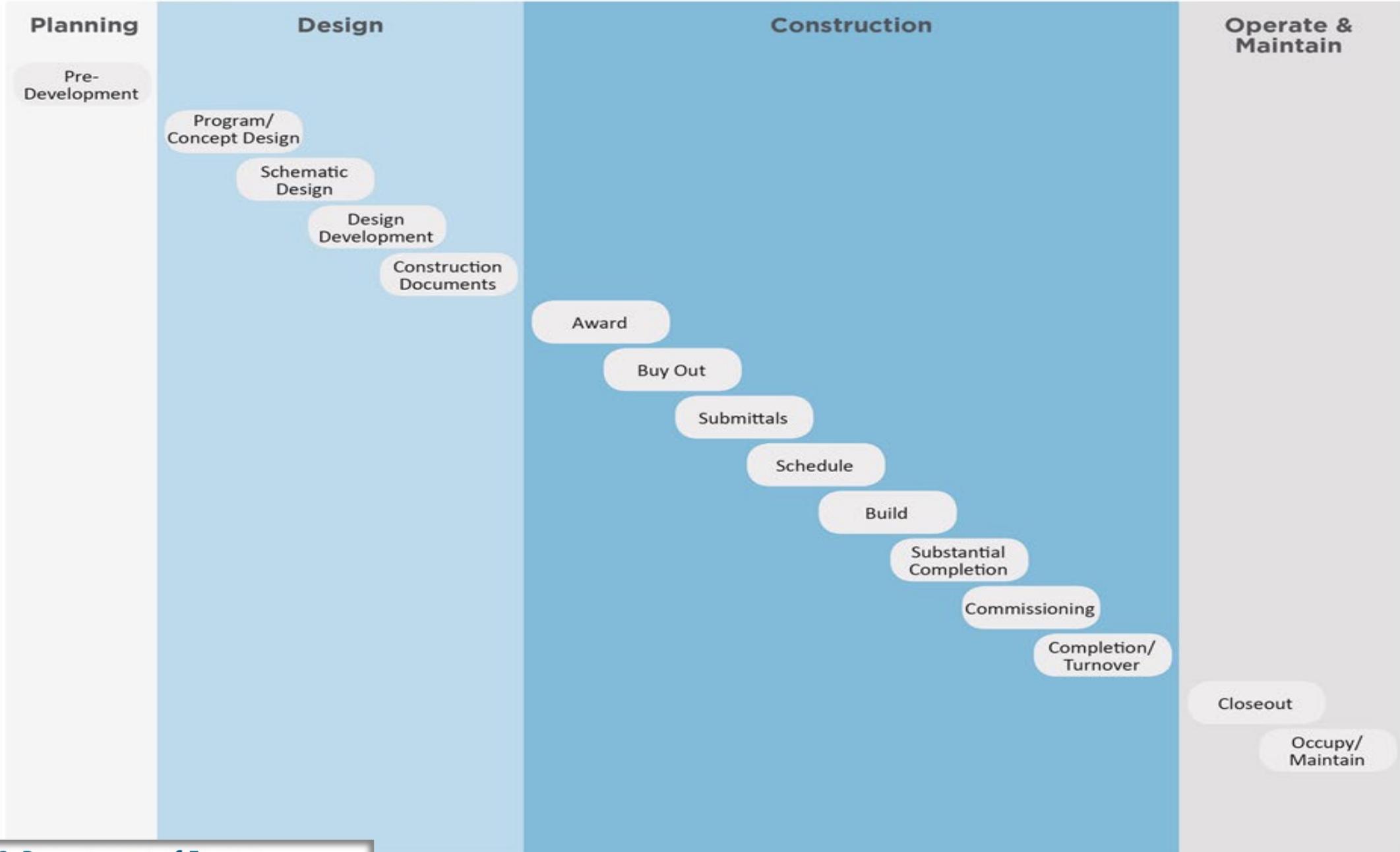
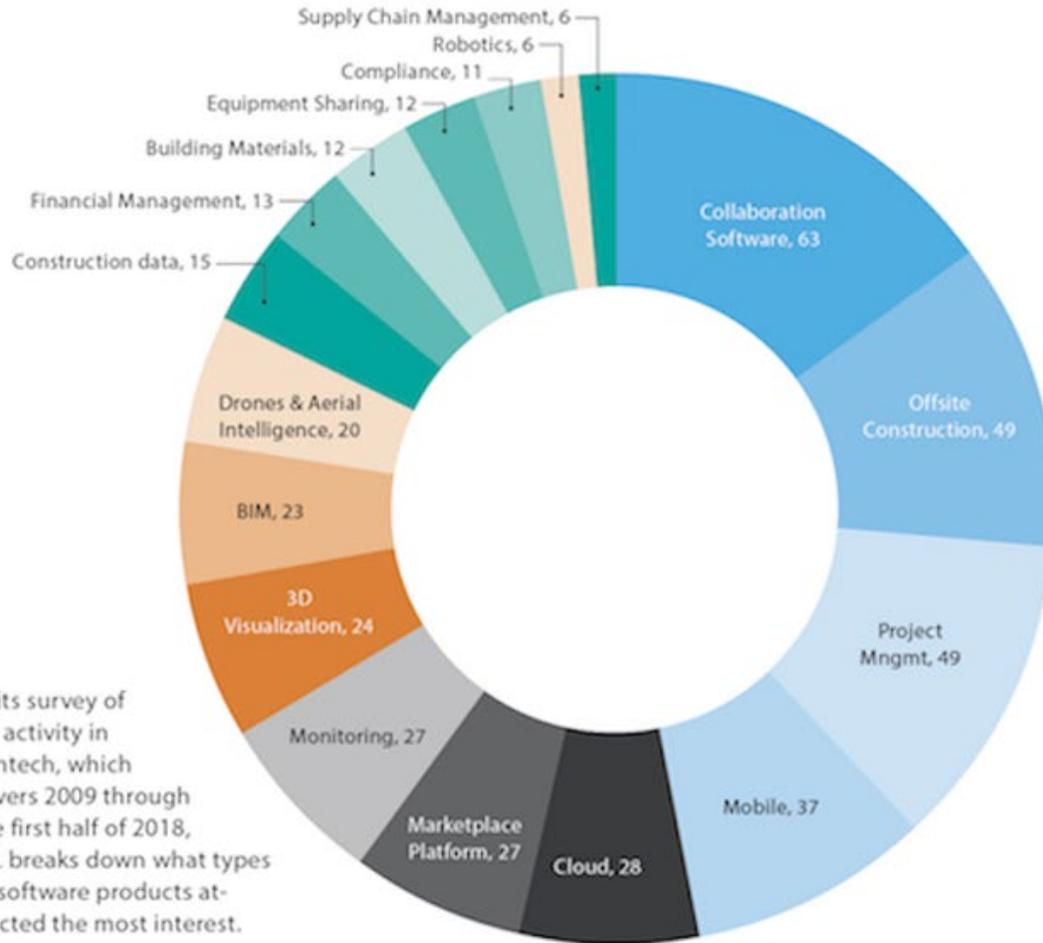


# Agile AEC – Disruption is coming, and it's about time





WHERE CONSTRUCTION TECHNOLOGY STARTUPS ARE INNOVATING  
(by number of startups in category)



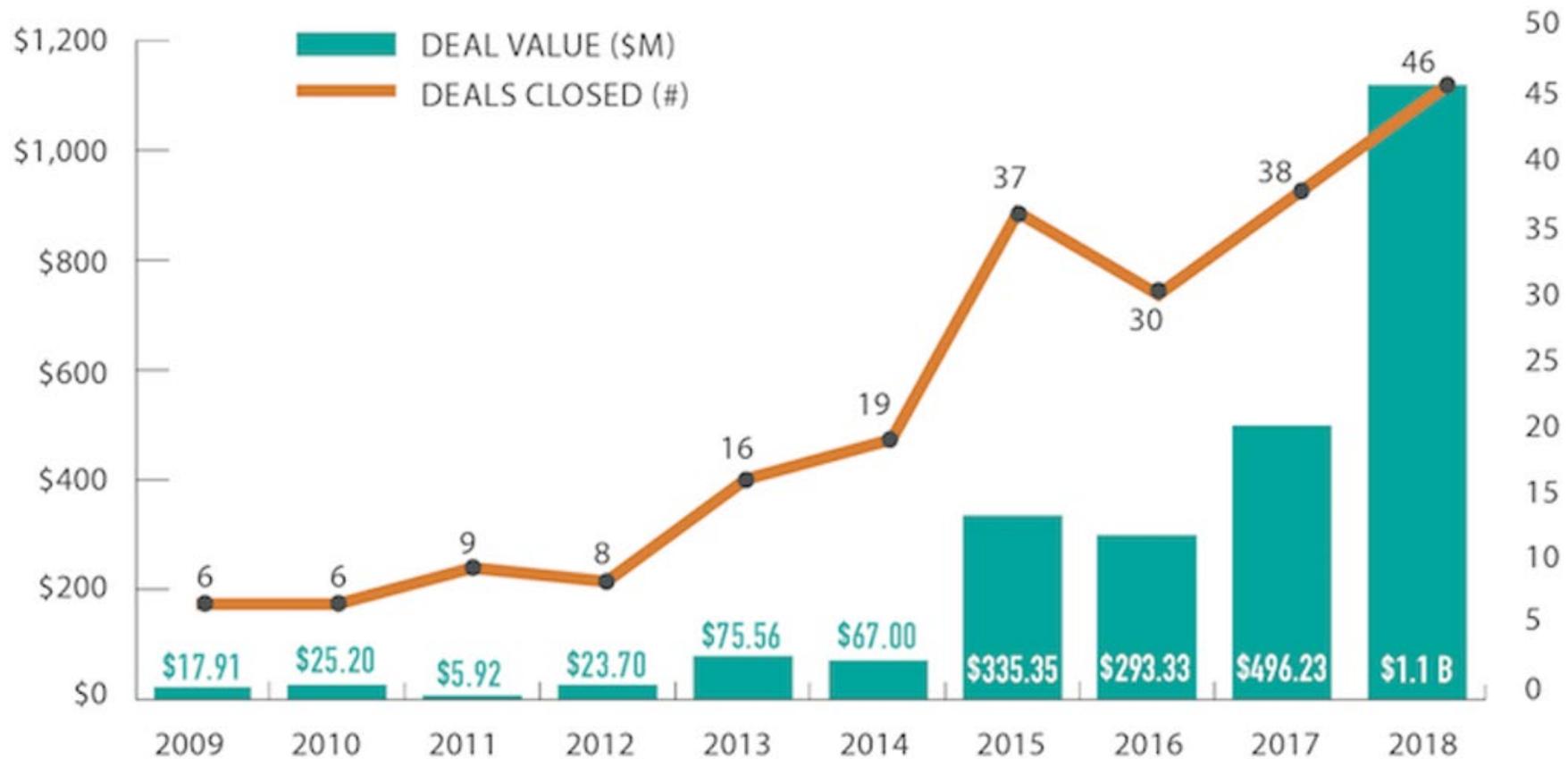
In its survey of VC activity in contech, which covers 2009 through the first half of 2018, JLL breaks down what types of software products attracted the most interest.

# NUMBER OF UNICORNS IN CONSTRUCTION TECH-

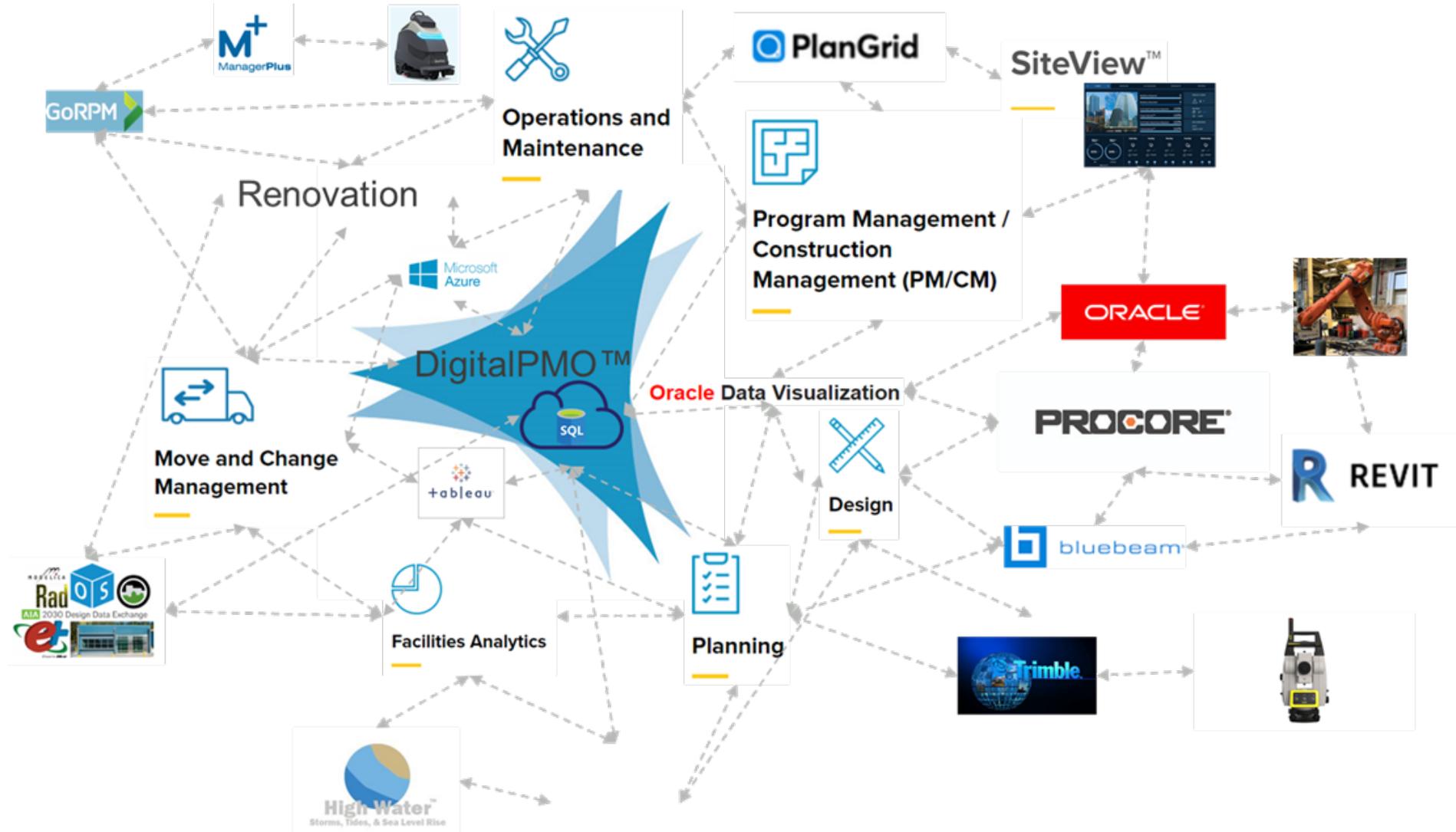
- | Katerra
- | Procore
- | Uptake

Source: CB Insights JLL Research

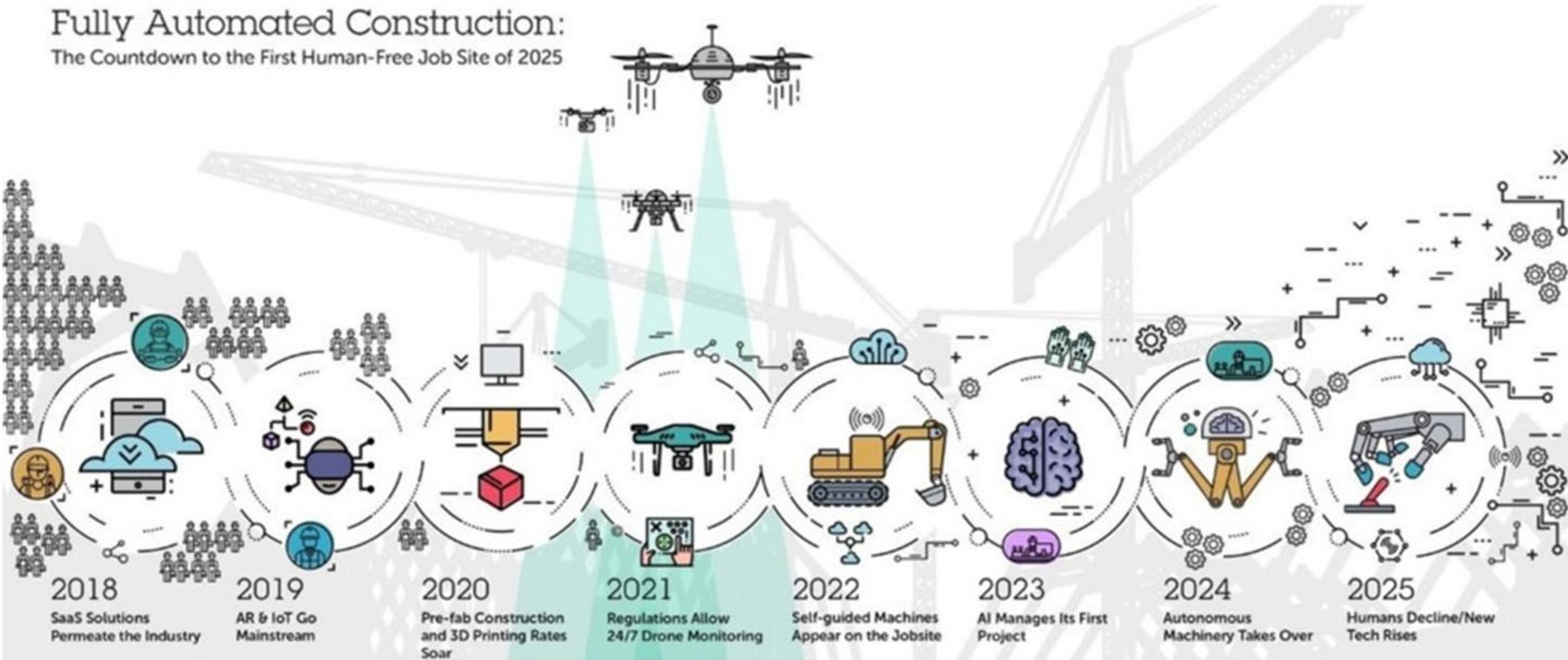
## U.S. VC DEAL ACTIVITY IN CONSTRUCTION TECH



SOURCE: PITCHBOOK



# Fully Automated Construction: The Countdown to the First Human-Free Job Site of 2025



U.S. Department of Energy

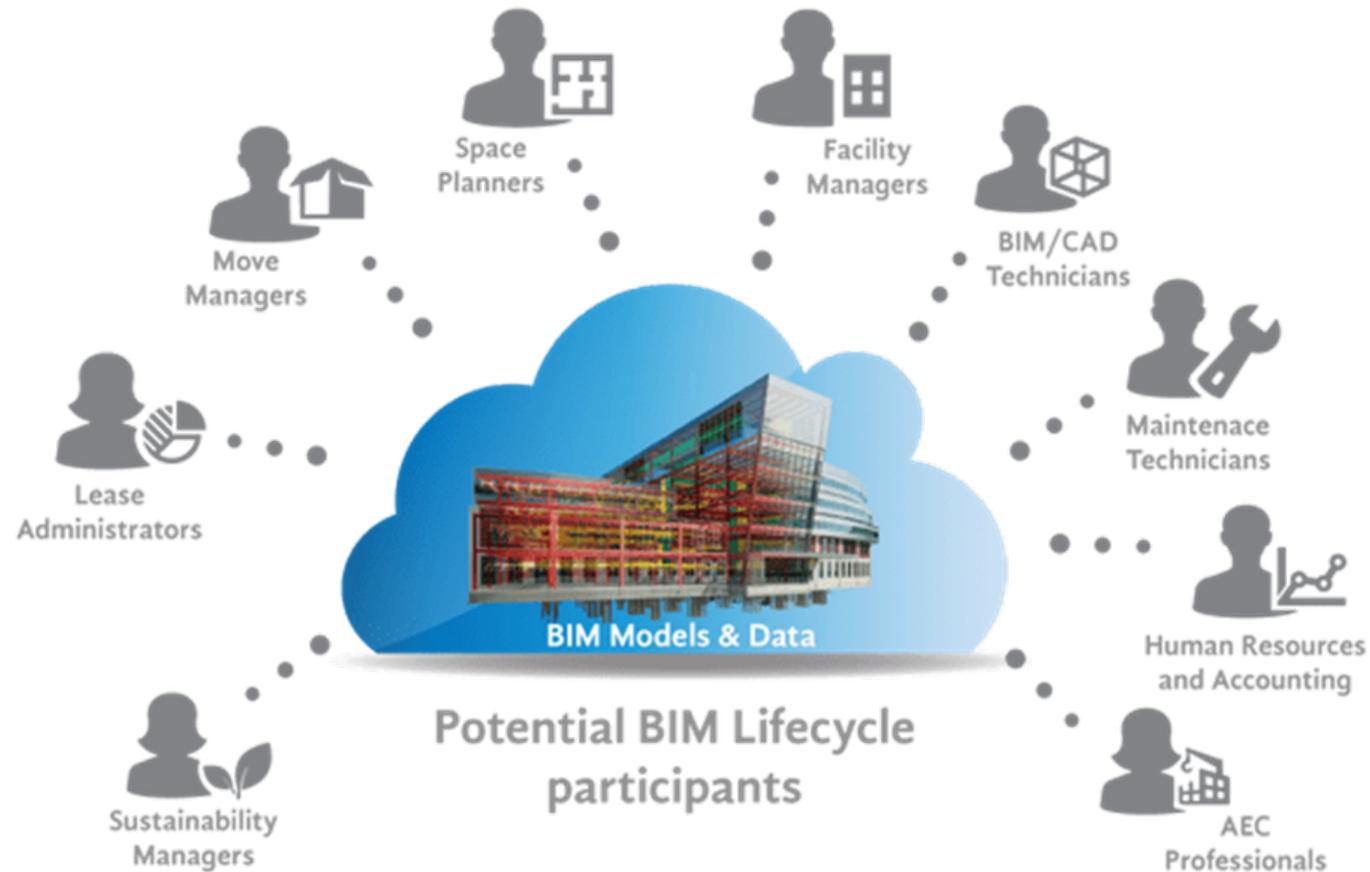
# Lighting R&D Workshop

BRIDGING THE GAP BETWEEN TECHNOLOGY PROMISE AND TODAY'S REALITY

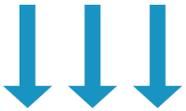


U.S. Department of Energy  
**Lighting R&D Workshop**

*BRIDGING THE GAP BETWEEN TECHNOLOGY PROMISE AND TODAY'S REALITY*



Input from Owner, AHJ, end users, and other stakeholders



Product Owner (Agency CM)

**Features**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_



Team: Architect, Engineer, Contractor, O&M

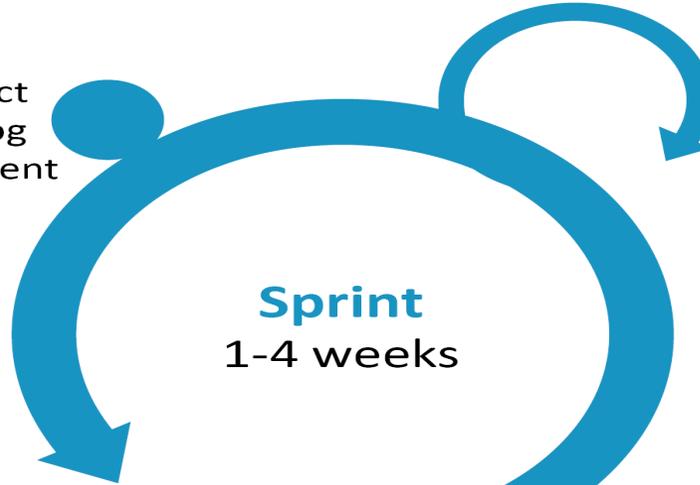
Team selects how much to commit to do by sprint's end

**Sprint Planning Meeting**  
(Parts One and Two)



**ScrumMaster**

Product backlog refinement



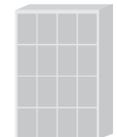
**No changes**  
in duration or goal



Scrum meeting and artifacts update



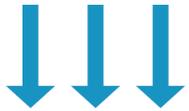
**Review**



Potentially buildable product increment



Input from  
Owner, AHJ,  
end users,  
and other  
stakeholders

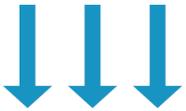


Product Owner  
(Agency CM)

**Features**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

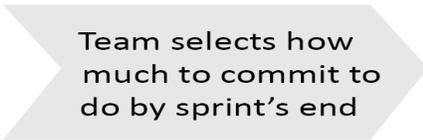
Input from  
Owner, AHJ,  
end users,  
and other  
stakeholders



Product Owner  
(Agency CM)



Team: Architect, Engineer,  
Contractor, O&M

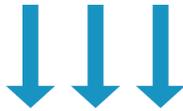


**Sprint Planning Meeting**  
(Parts One and Two)

**Features**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

Input from  
Owner, AHJ,  
end users,  
and other  
stakeholders



Product Owner  
(Agency CM)

**Features**

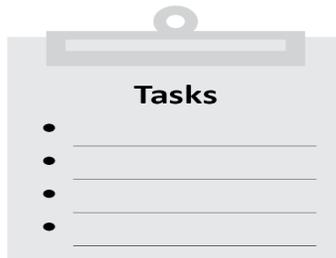
1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_



Team: Architect, Engineer,  
Contractor, O&M

Team selects how  
much to commit to  
do by sprint's end

**Sprint Planning Meeting**  
(Parts One and Two)



**Sprint Backlog**

Input from Owner, AHJ, end users, and other stakeholders



Product Owner (Agency CM)

**Features**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_



Team: Architect, Engineer, Contractor, O&M

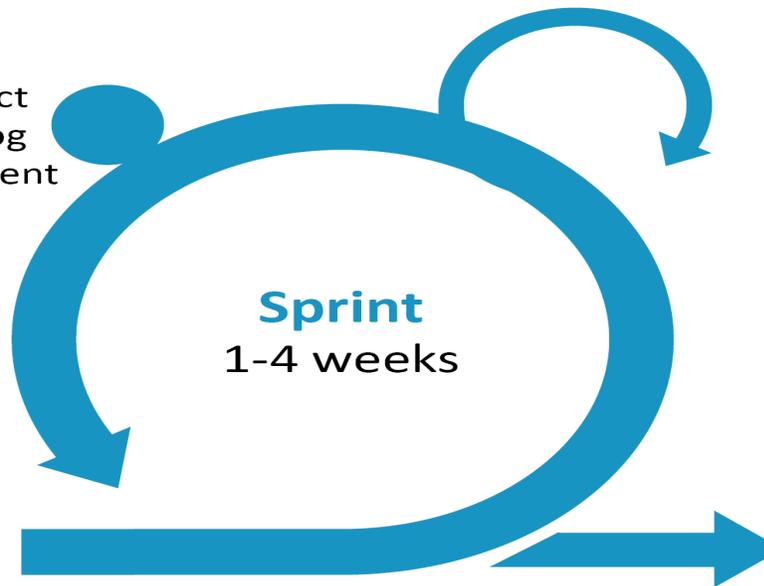
Team selects how much to commit to do by sprint's end

**Sprint Planning Meeting**  
(Parts One and Two)

Product backlog refinement



ScrumMaster



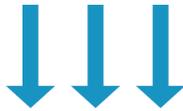
**Sprint**  
1-4 weeks

**No changes**  
in duration or goal



**Sprint Backlog**

Input from Owner, AHJ, end users, and other stakeholders



Product Owner (Agency CM)

**Features**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_



Team: Architect, Engineer, Contractor, O&M

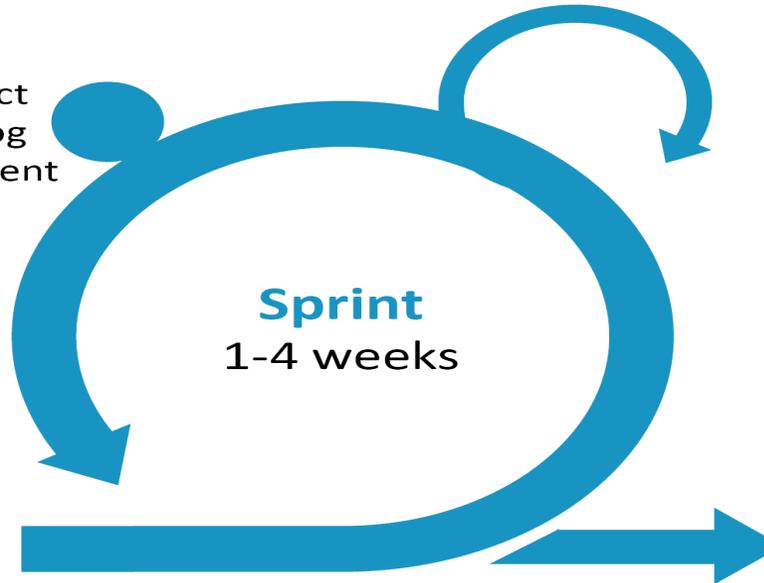
Team selects how much to commit to do by sprint's end

**Sprint Planning Meeting**  
(Parts One and Two)



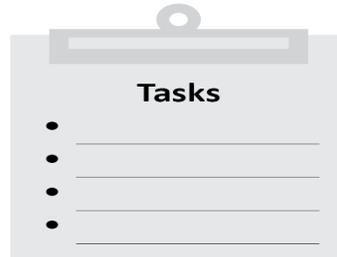
**ScrumMaster**

Product backlog refinement



**Sprint**  
1-4 weeks

**No changes**  
in duration or goal

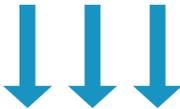


**Sprint Backlog**



Scrum meeting and artifacts update

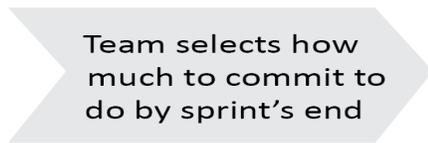
Input from Owner, AHJ, end users, and other stakeholders



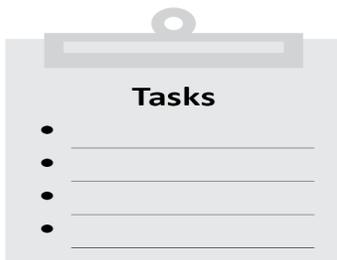
Product Owner (Agency CM)



Team: Architect, Engineer, Contractor, O&M



**Sprint Planning Meeting**  
(Parts One and Two)

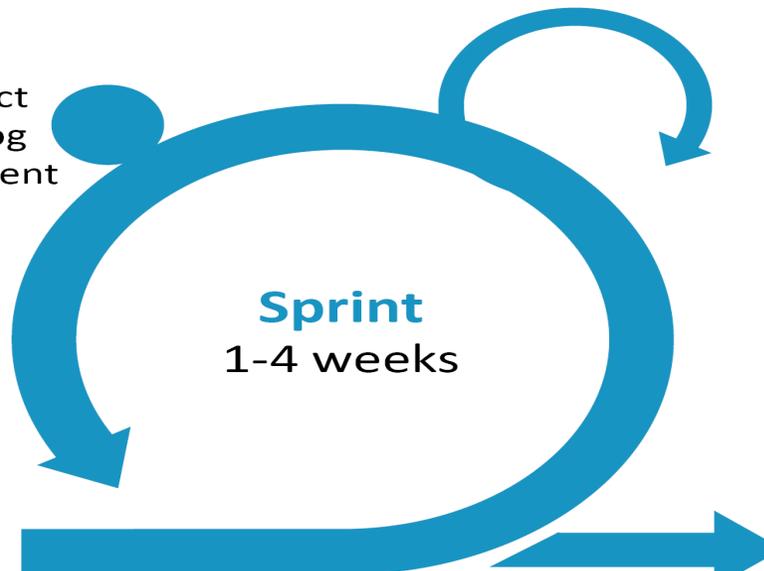


**Sprint Backlog**



**ScrumMaster**

Product backlog refinement



**Sprint**  
1-4 weeks

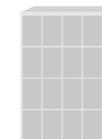
**No changes**  
in duration or goal



Scrum meeting and artifacts update



**Review**



Potentially buildable product increment

Input from Owner, AHJ, end users, and other stakeholders



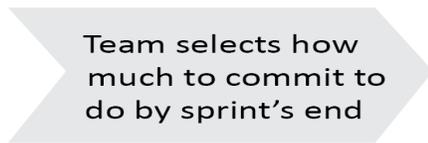
Product Owner (Agency CM)

**Features**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_



Team: Architect, Engineer, Contractor, O&M



**Sprint Planning Meeting**  
(Parts One and Two)

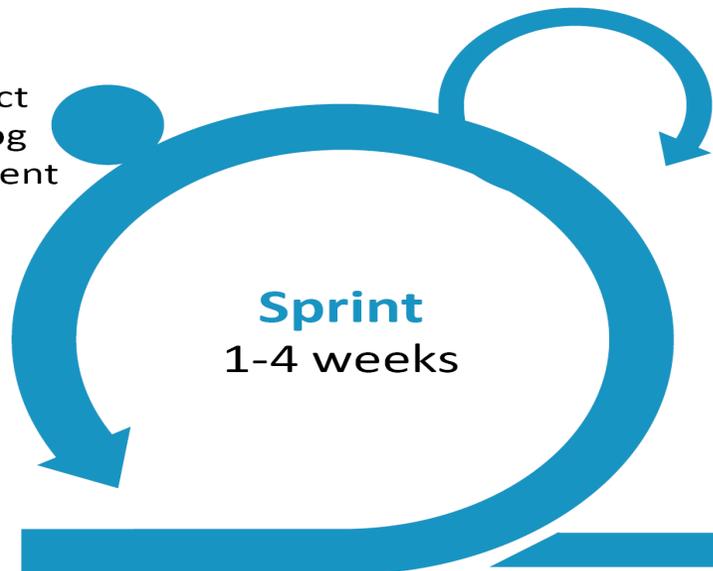


**Sprint Backlog**



**ScrumMaster**

Product backlog refinement



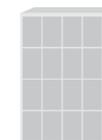
**No changes**  
in duration or goal



Scrum meeting and artifacts update



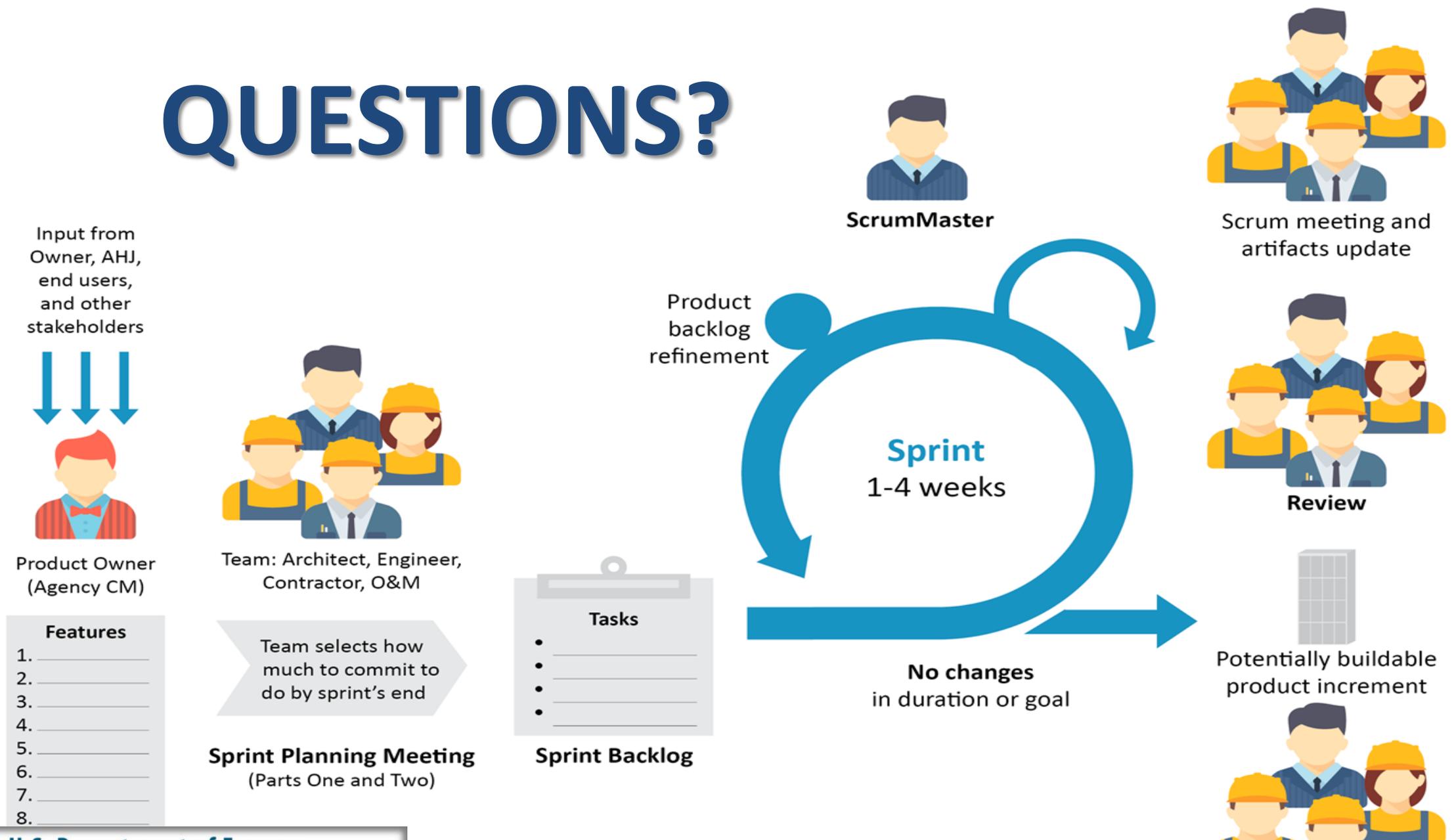
**Review**



Potentially buildable product increment



# QUESTIONS?



# Presenter Contact Information

- Joel Timmins, CSP, CCM, PMP

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