

CS3300 Intro to Software Engineering *10/20/2022*

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www.Filio.io

COLLABORATIVE VISUAL ASSET MANAGEMENT

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THE FILIO TEAM



MAHDI



**2018 Georgia Tech
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Winner of the
Outstanding Applied
Research Award, 2018
Annual Geotechnical
Student Poster
Symposium, Georgia
Institute of Technology

THE PROBLEM

- Data collection and management in engineering / construction is often “old-tech” and inefficient
 - Persistent use of spreadsheets in tasks such as collecting field data
 - Very low rates of integration in software systems that share data; and
 - Dependence on manual re-keying or using spreadsheets to transfer data when programs are not integrated
 - Construction productivity has not kept pace with economic productivity

Sources:

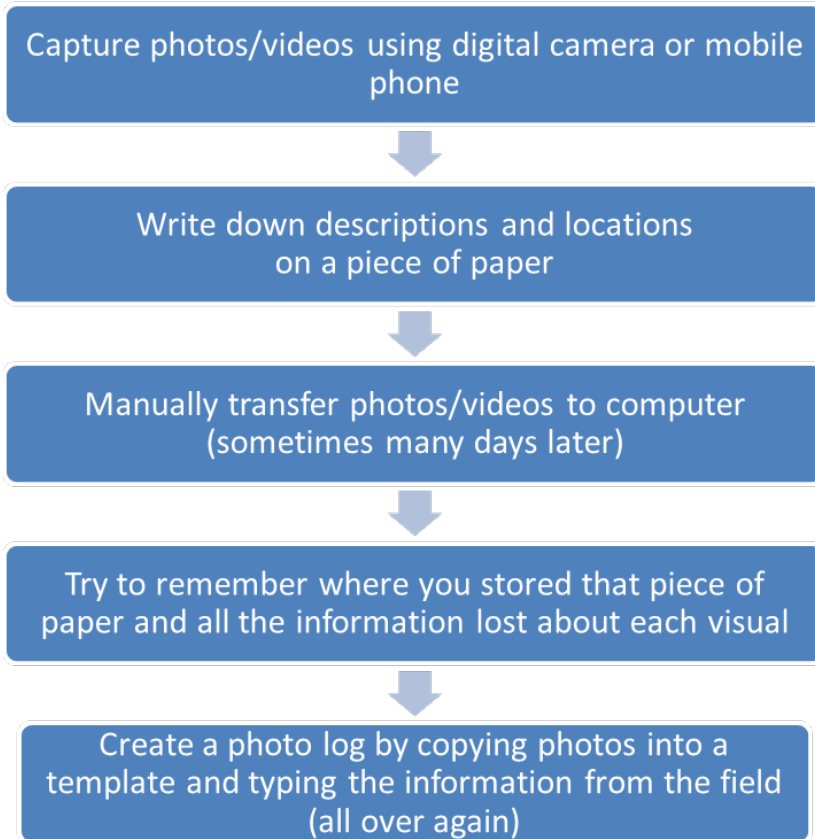
JBKnowledge - 2015 Construction Technology Report

McKinsey - Imagining construction's digital future (Article, June 2016)

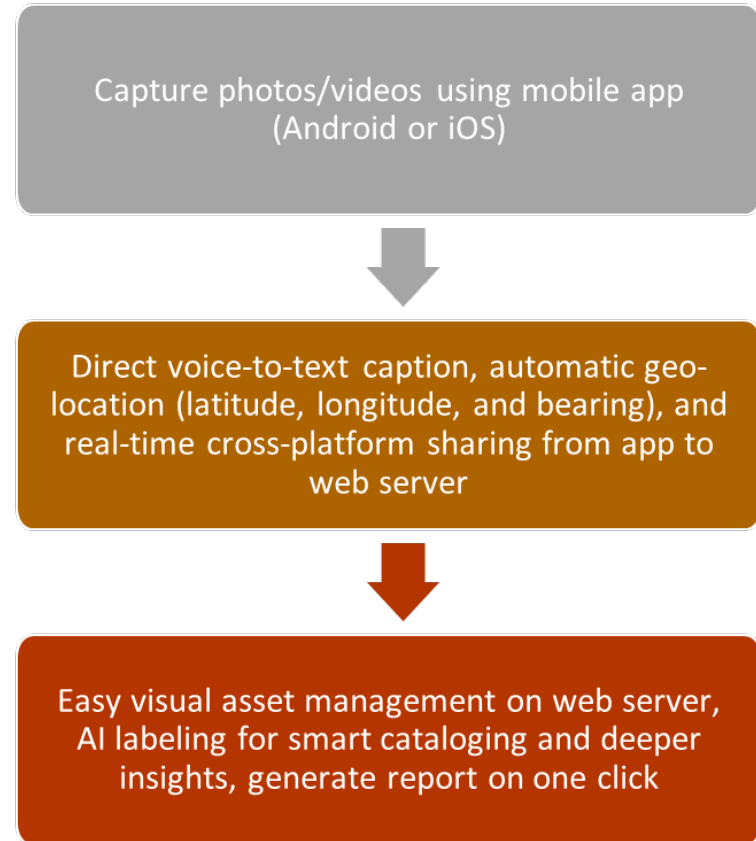
THE SOLUTION

- One particular problem is visual asset management (or lack thereof)

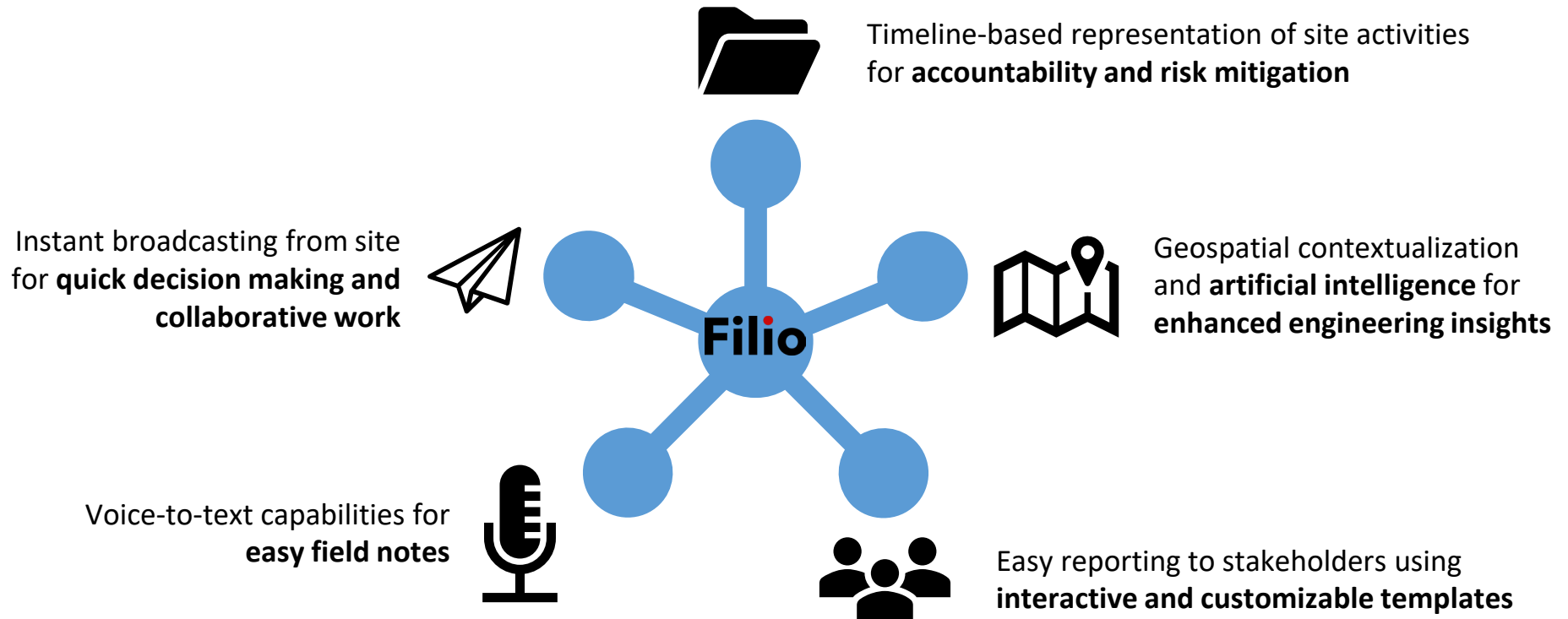
COMMON PRACTICE



Filio MODEL



WHAT DOES FILIO DO?



- User friendly design + real-time connectivity → **more pictures/videos, no info lost, collaborative, less risk**
- Intuitive platform + visualization/reporting tools → **increased productivity and efficiency**
- Artificial intelligence + computer vision → **enhanced insights into photographic data**

What software development cycle are we using?

Agile

Is unit testing required?

YES

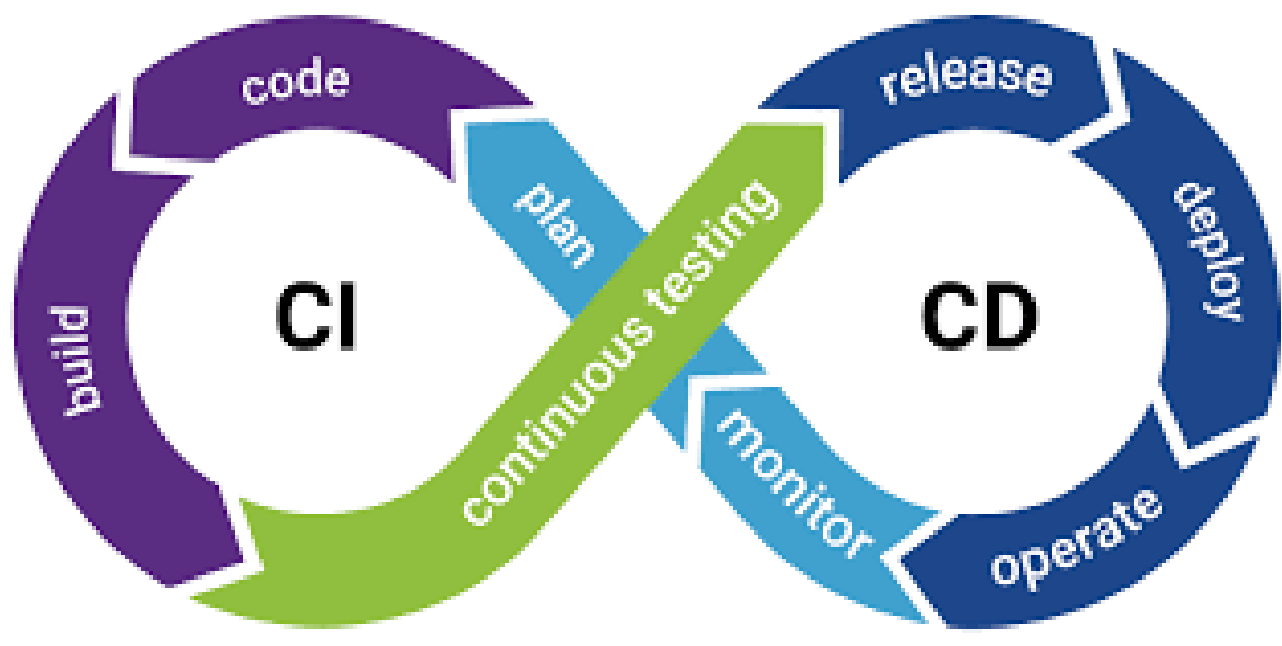
Have you heard of “Technical Debt”?

This term gives me heebeegeebees

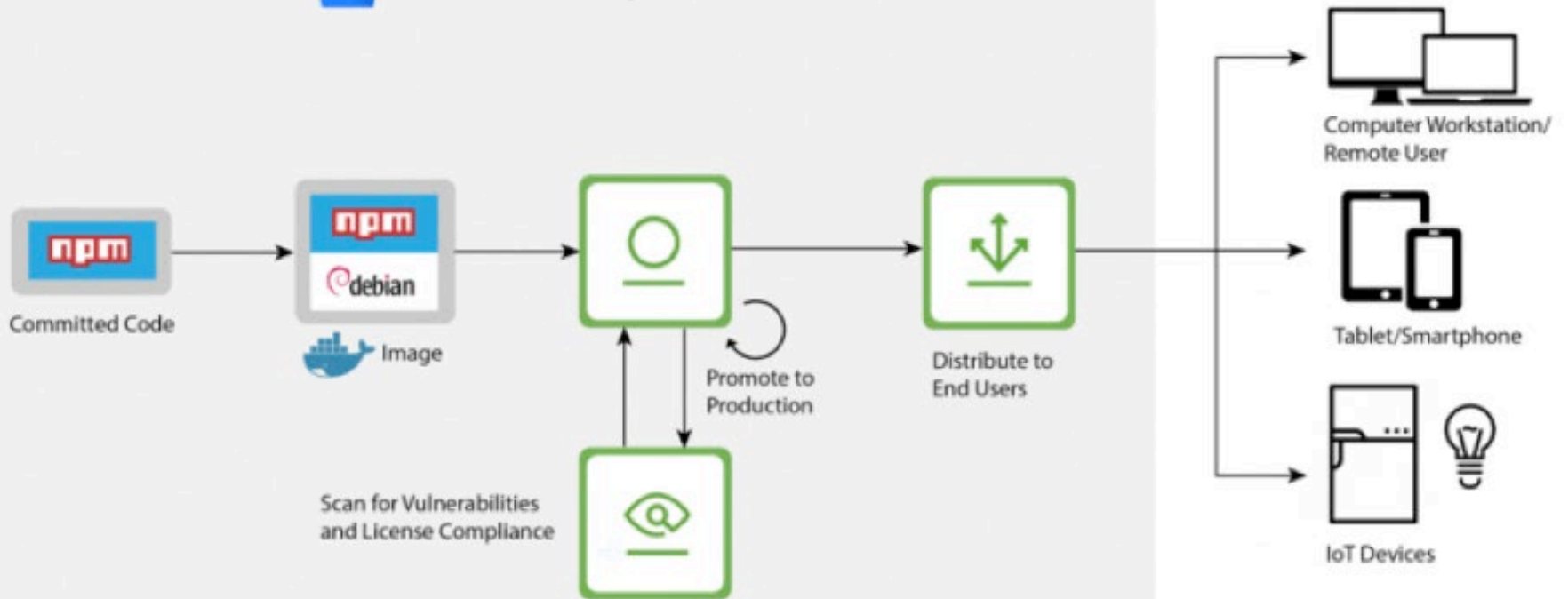
What is the best way to do web-software development in general?

Continuous Integration and Continuous Delivery

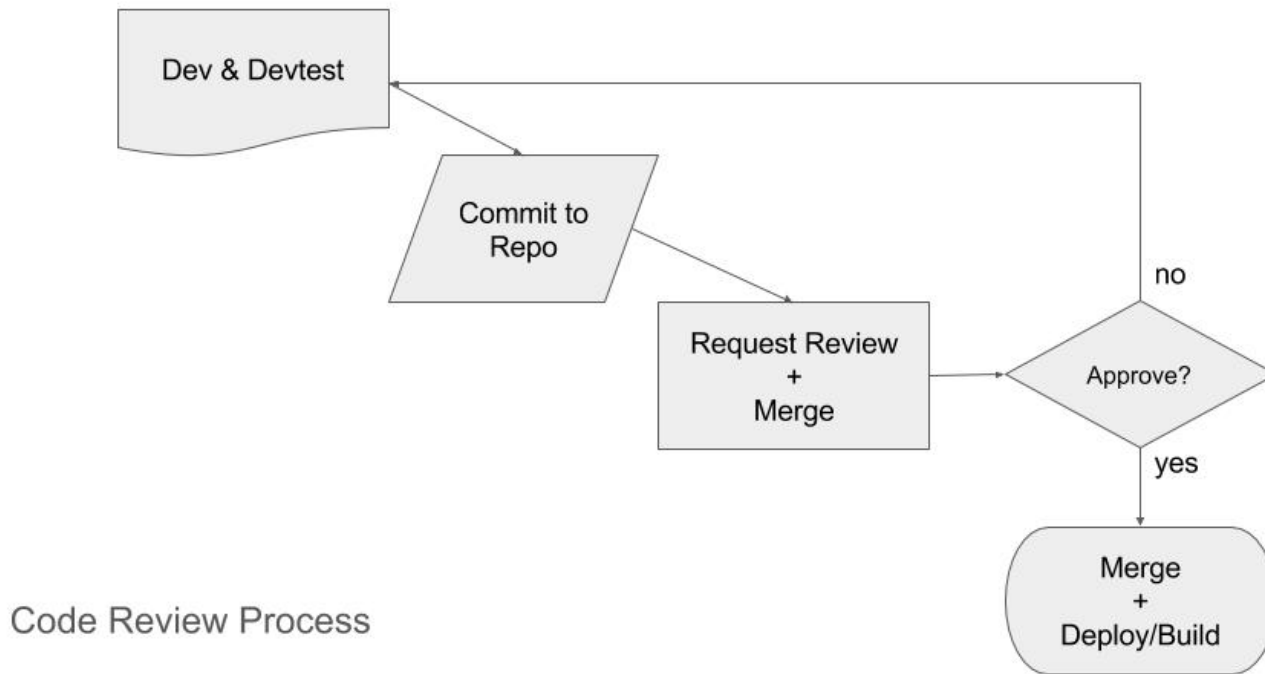
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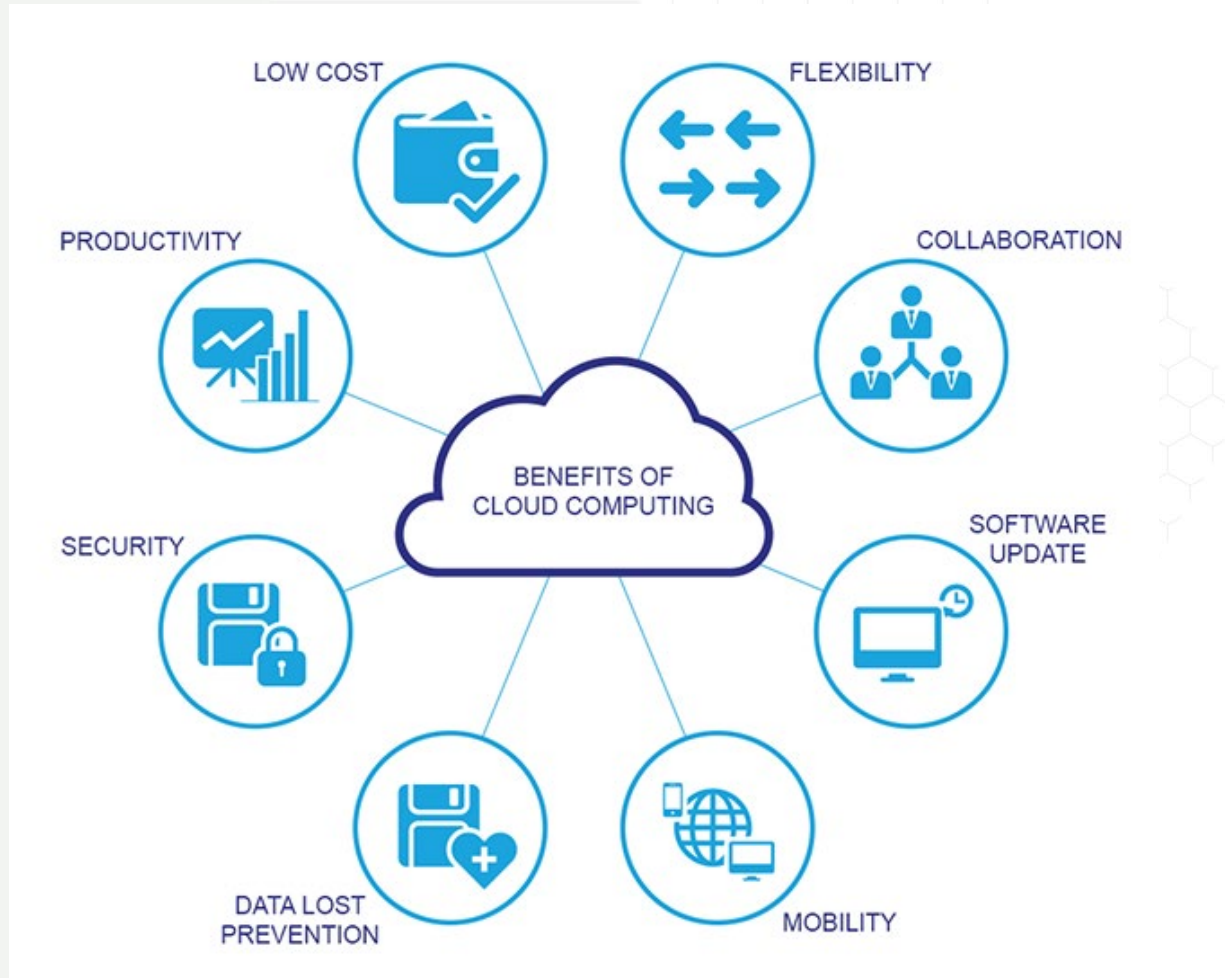
Bitbucket Pipeline



Why using git versioning system + Github\Bitbucket\GitLab



Cloud-based web development is the future



THANK YOU!

QUESTIONS?