The University of Washington’s CAD/BIM/GIS Floor Plan System
What we’ll be talking about today…

Overview

The Infrastructure
  ➡️ Keeping it all running

2D & 3D Mapping
  ➡️ Using the Data

What’s Happening Now
  ➡️ Prototype Applications

Floor Plan Web Application
  ➡️ Managing Changes

What’s Next?
  ➡️ The Future…
But first, some terminology…

**CAD** Computer Aided Drafting/Design

**BIM** Building Information Modeling

**GIS** Geographic Information System

**AutoCAD** CAD Software

**Revit** BIM Software

**ArcGIS** GIS Software

**LiDAR** Light Detection and Ranging. Scanning technology that creates a millions of 3D points representing the scanned area.
Why BIM?

...BIM is the next evolution of drafting technology
...More efficient
...More correct
...More intelligent
...Level of information not available in CAD
Why GIS?

GIS is designed as a highly distributed system
Different people can store their information and share it with others easily

Represents real-world locations

Data analysis capabilities beyond anything CAD/BIM can do

Multi-platform accessible
Desktop
Web
Mobile

Nearly everyone knows how to use and/or understand GIS whether they know it or not
Google/Bing Maps
Navigation
Weather mapping
Its all GIS!

Powered by data, not manually created graphics
The CAD Vault
Project BIM

Owner’s BIM

Export to CAD

Auto-Translate to GIS

Updates - Projects
Updates - LiDAR Scanning