

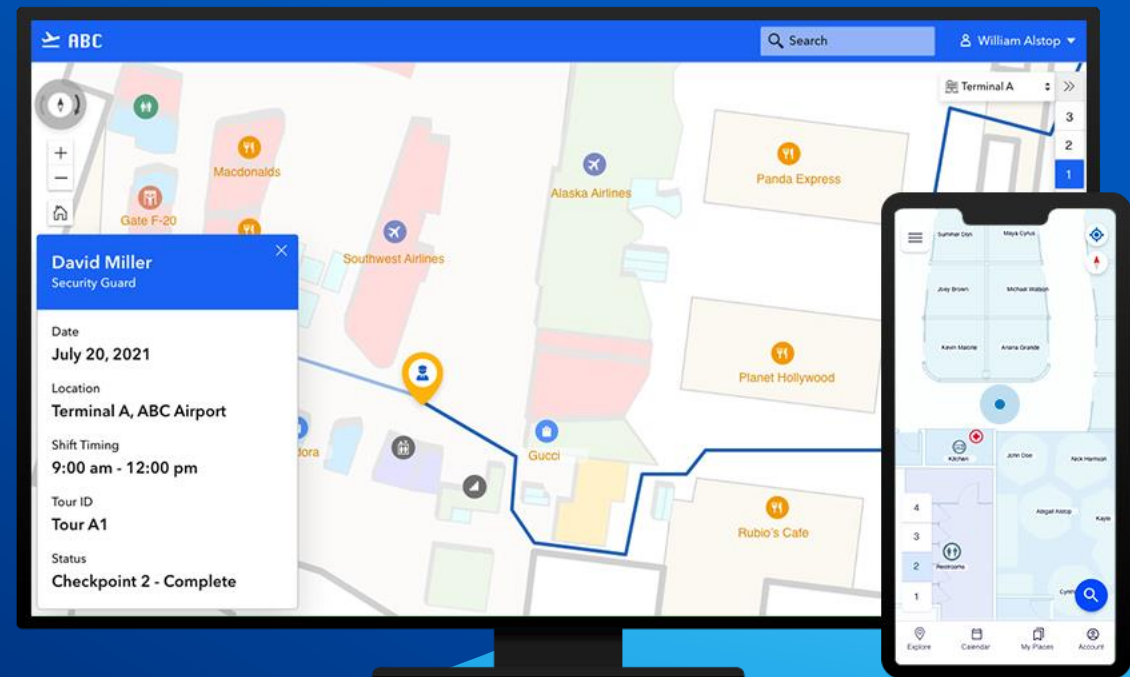
Indoor GIS

Joseph Brigham Bowles



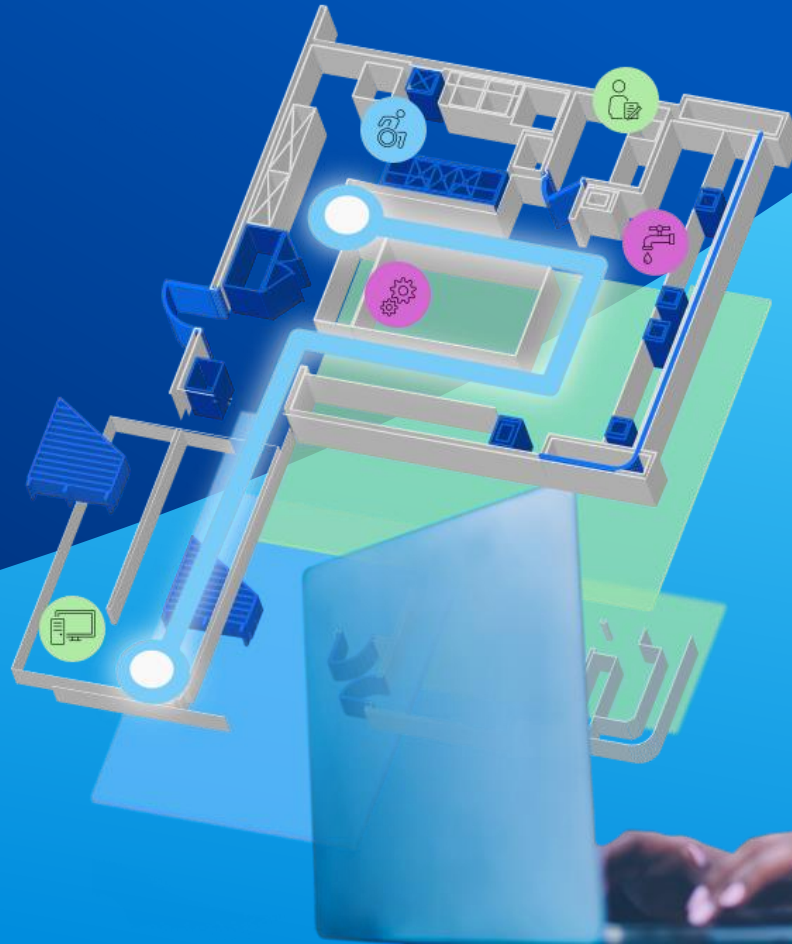
Agenda

- Introduction to Indoor GIS
- Interactive Demonstrations
- Getting Started
- Questions & Answers



Indoor GIS

Introduction



ArcGIS Enables

The Geographic Approach

A Powerful System for . . .

Creating Understanding

Exploring Alternatives

Finding Solutions



. . . and Taking Action



We've mapped
every inch
of the world
outdoors.



We spend 90%
of our time **indoors.**



A low-angle photograph of a modern glass skyscraper at dusk. The building's facade is composed of large glass panels reflecting the sky and surrounding environment. Through the glass, the interior of several floors is visible, showing office spaces with desks, chairs, and warm yellow lighting. The building's structure is geometric, with multiple levels and setbacks. A solid blue rectangular box is centered over the middle of the image, containing white text.

Indoor mapping starts with
accurate floor plans.

The background of the image consists of several overlapping architectural documents. On the left, a floor plan is visible with labels such as '2nd. FLOOR P', 'ST-1', and 'REV. 12/20'. In the center, a white cylindrical object, likely a rolled-up blueprint, is positioned diagonally. To the right, a more complex drawing with a grid and numerous colored lines (yellow, red, green, blue) is visible, possibly representing a site plan or a detailed utility layout. The overall scene suggests a professional architectural or engineering workspace.

Most organizations still rely on
outdated data formats to
manage their facilities.

Indoor GIS Enables

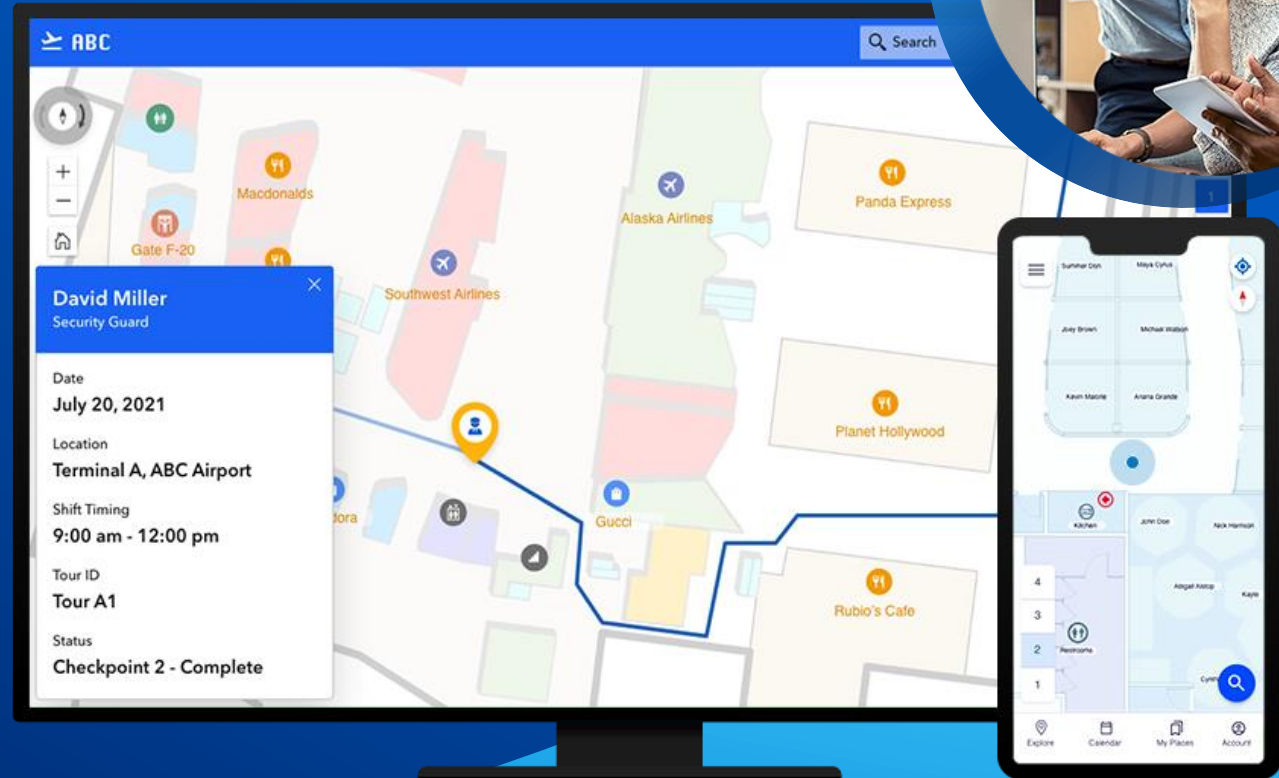
The Geographic Approach Indoors

A Powerful System for . . .

Creating Understanding

Exploring Alternatives

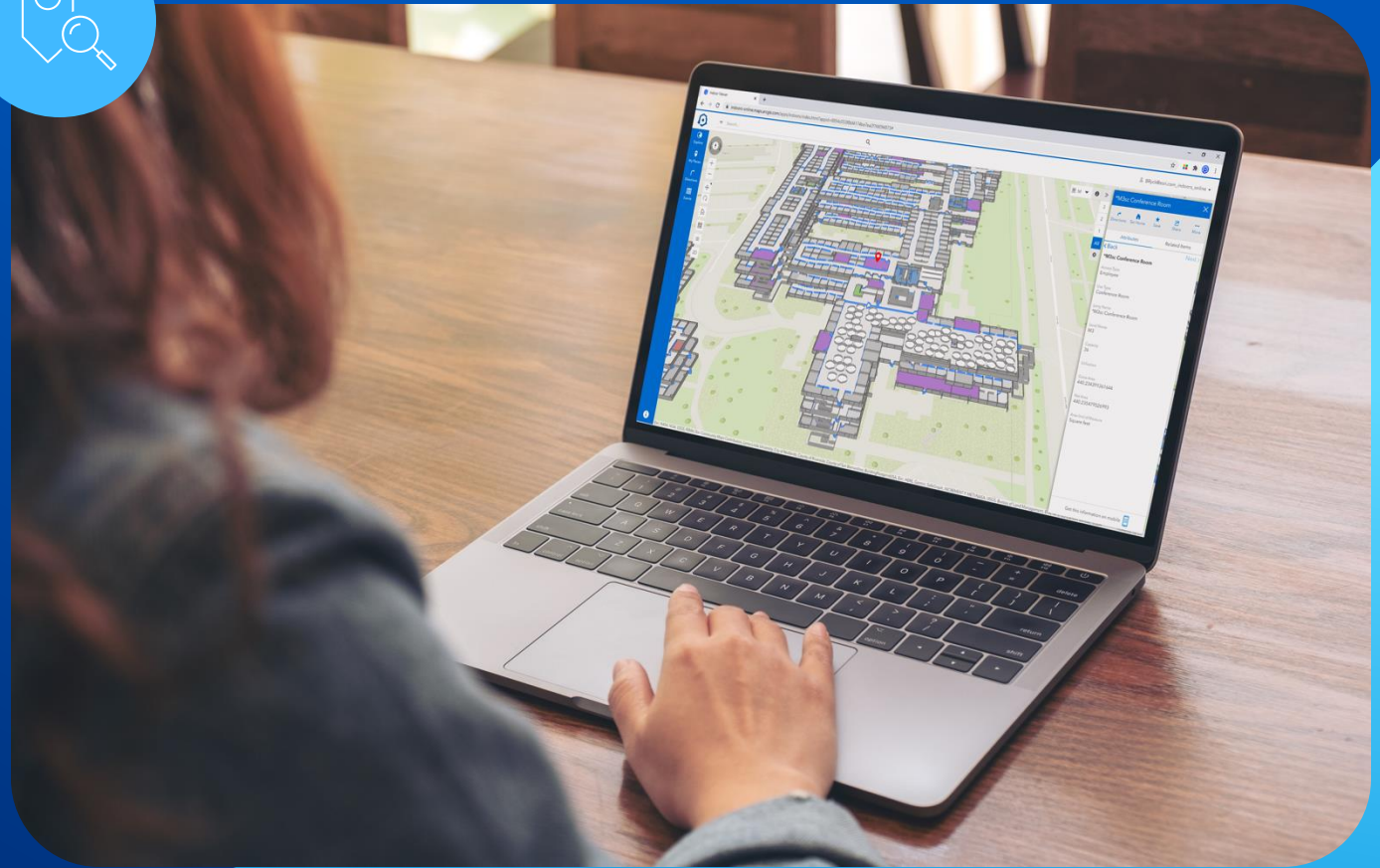
Finding Solutions



Indoor GIS users can find building data easily.

Non-expert users can quickly filter indoor maps by sites, buildings, floors, and layers throughout the vertical asset portfolio.

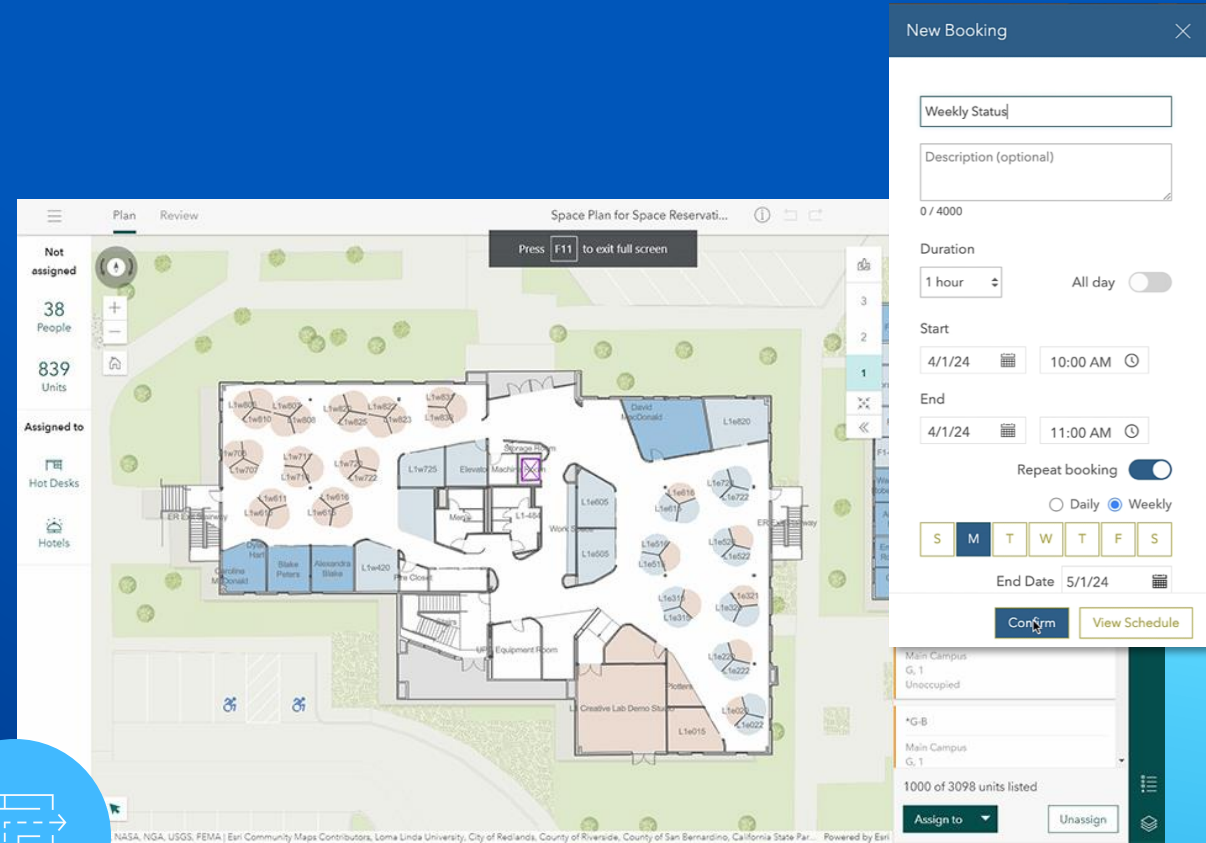
Web and mobile apps streamline access and sharing to users anywhere on any device.



Indoor wayfinding & space reservations enable hybrid workplace experiences.

Employees can explore, search, navigate, request, and reserve accommodations to make their visits to the workplace painless.

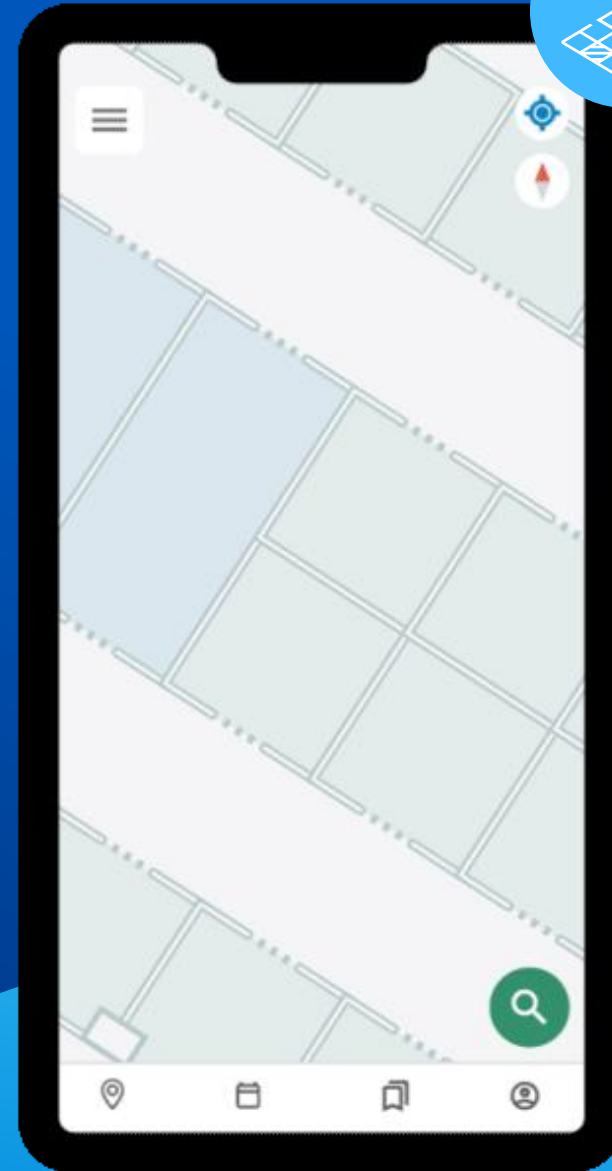
Indoor map data can be stored and accessed locally and in the web for optimal performance at scale.



Indoor positioning systems give end users real-time location awareness

Maps open instantly to an end user's location, routes generate from anywhere, and users can securely share their real-time location with coworkers.

Location sharing drives space use insights and rapidly informs public safety or physical security.





You don't need sophisticated CAD, BIM, or GIS expertise to **create foundational indoor basemaps & operationalize your indoor data.**

Indoor GIS Patterns of Use



Asset Management



Space Management



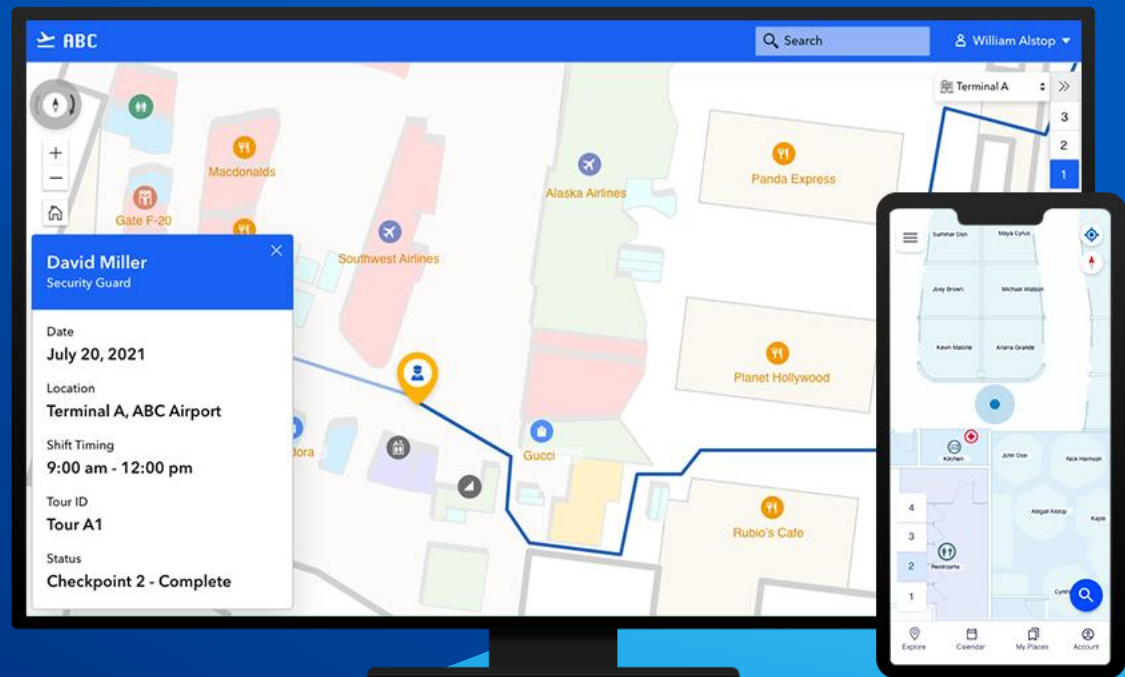
Safety & Security



Occupant Experience

Indoor GIS

Interactive Demonstration



Asset Management

- Map indoor asset locations
- Tie indoor locations to work order management systems
- Streamline inspections
- Resolve work orders more efficiently



Space Management

- Evaluate space use
- Assign and reserve spaces
- Plan occupant relocations
- Design what-if scenarios
- Enable a hybrid workplace



Safety & Security

- Map people, spaces, & assets
- Mark exits & evacuation routes
- Improve situational awareness
- Create safety & security plans
- Provide maps to first responders



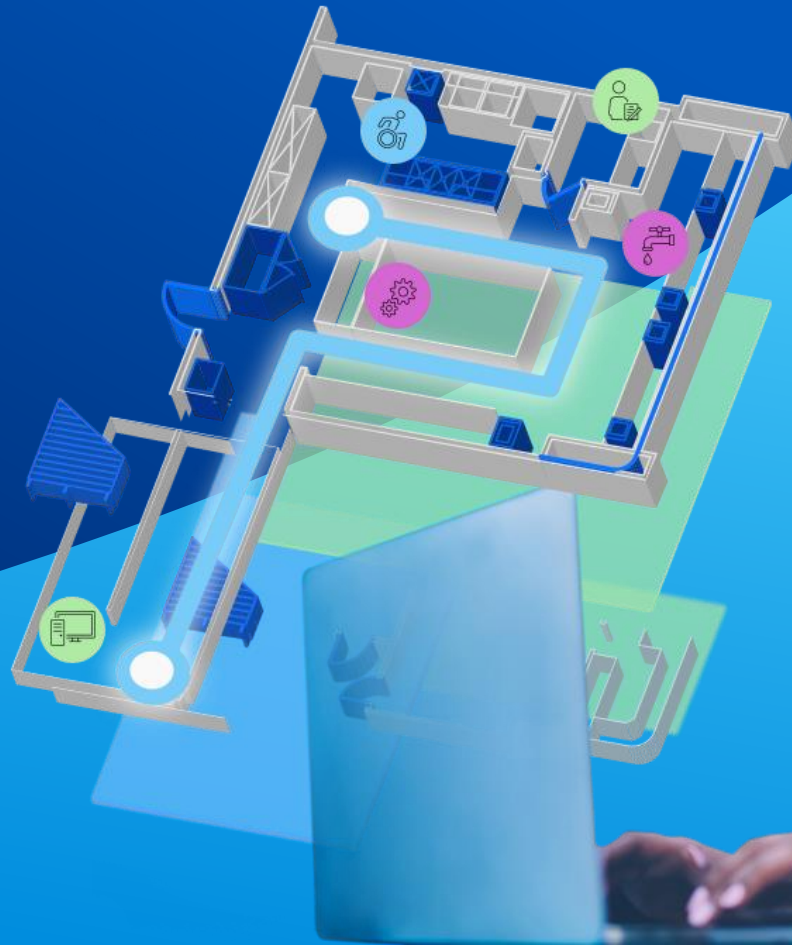
Occupant Experience

- Locate people, spaces, assets, & events
- Get routes & directions indoors
- Report incidents and submit work orders
- Reserve workspaces & meeting rooms
- Enhance indoor location discovery and navigation with indoor positioning



Indoor GIS

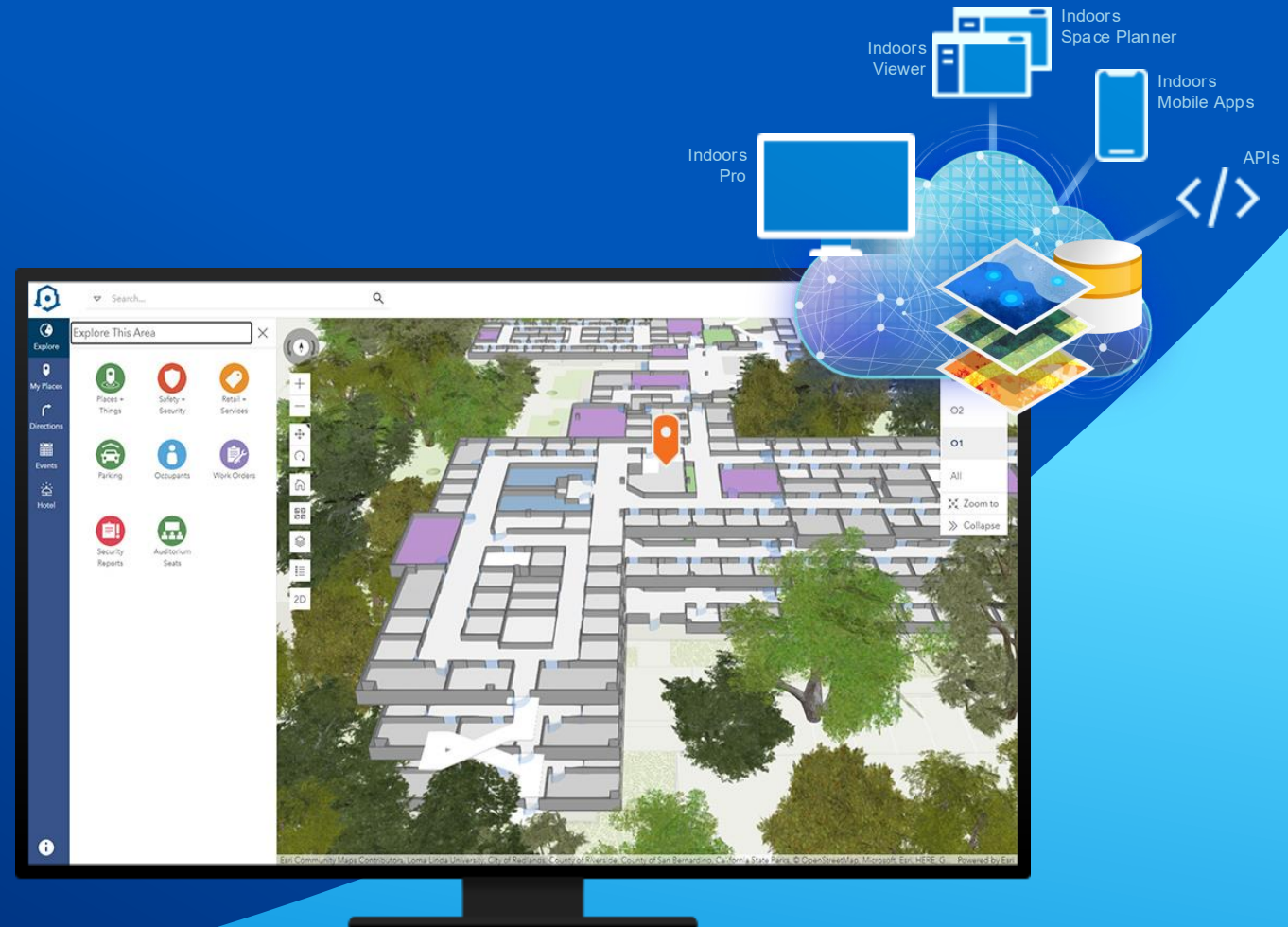
Getting Started



ArcGIS Indoors

Indoor Mapping, Wayfinding & Space Planning

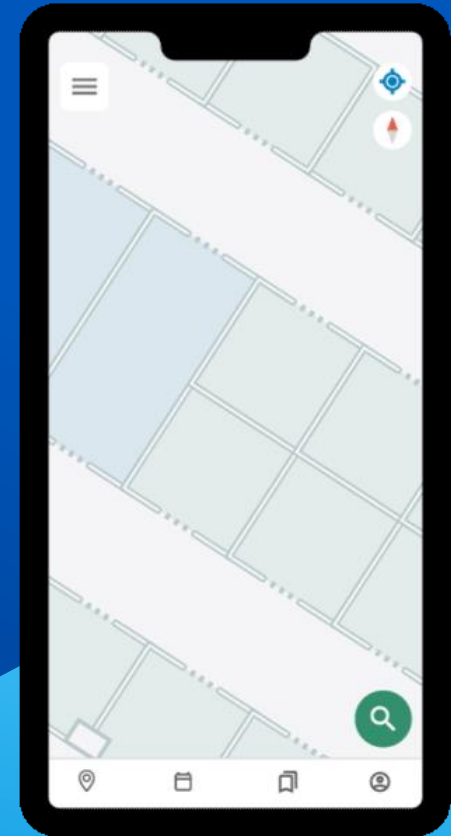
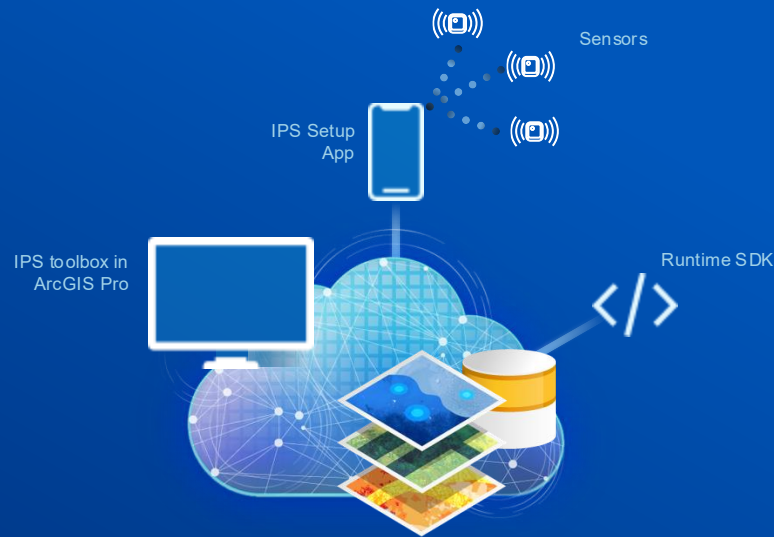
- Enable indoor maps in ArcGIS Online or Enterprise
- Convert and curate indoor maps for occupants
- Support interactive navigation and space reservations



ArcGIS IPS

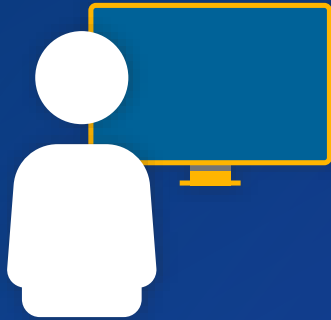
Indoor Positioning

- Easily set up indoor positioning systems
- Enhance indoor apps with indoor location services
- Streamline communication and collaboration

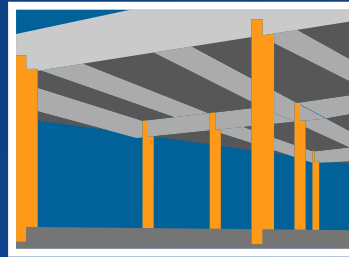


ArcGIS Indoors Pro

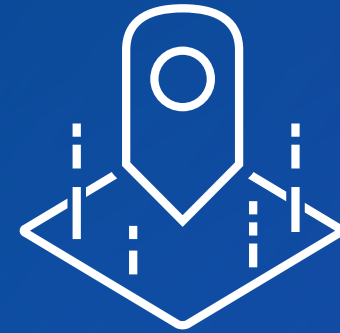
build and share floor-aware maps



License per
named-user



Import floor plans:
Build routable networks
Share maps



Add data: occupant,
events, work orders or
other POIs

ArcGIS Indoors Maps

share with your organization



Enables all
organizational Pro
users to build floor-
aware maps



Indoors Viewer
and Mobile



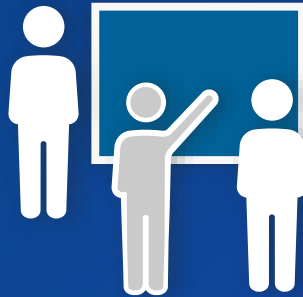
Unlimited Viewer and
Mobile use with Indoors
User type

ArcGIS Indoors Spaces

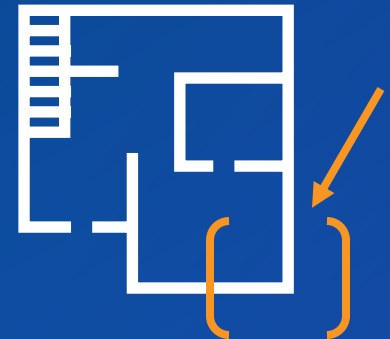
plan and manage your space



Workspace
Reservations



Space Planner
Application



Floor Plan Editor
Application

Indoor GIS

Q & A

