CDIS VISION

WHERE THE NEXT AND THE NOW CONVERGE

CDIS works at the intersection of technology and humanity to solve society's greatest challenges. Bringing together the departments of Computer Sciences, Statistics, and the Information School to serve the computing, data and information needs of our ever-changing world.

Alone isn't where ideas thrive and by bringing these program together under one roof in a new CDIS building, we will enable broad collaborations -- magnifying the power of discoveries across the University in medicine, engineering, agriculture business and beyond.

A "LIGHTHOUSE" FOR HIGH TECH IN WISCONSIN

The new CDIS building will create a tech hub for the state of Wisconsin. Developing the next generation of digital pioneers to:

- Create a more diverse and inclusive tech community
- Enable computational fluency, skills and understanding across all disciplines
- Support research to drive discovery and impact
- Cultivate and attract entrepreneurs to the region as a locus of innovation
- Attract businesses to a highly skilled workforce

THE BUILDING WILL SUPPORT

THE CORE | Bind the core units of CDIS, creating intellectual collisions and furthering disciplinary excellence

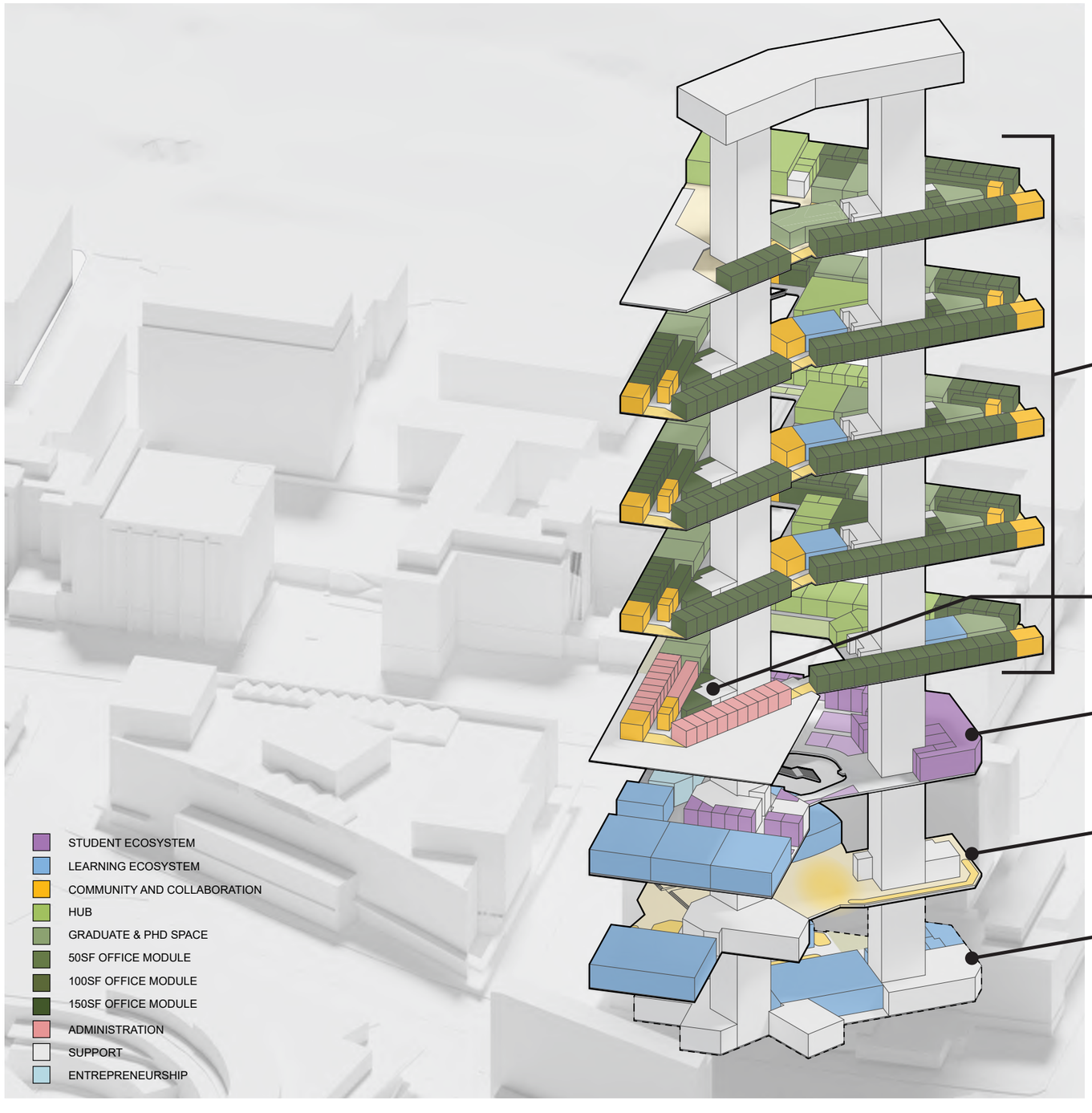
CONNECTIONS | Establish diverse collaborations and outreach across campus and around the state

ENRICHMENT | Enable learning and research at the intersection of computing, data, and society

CDIS PROJECT GOALS

1. Create **welcoming and inclusive** spaces to foster a diverse community
2. **Capitalize on the site** and take advantage of its location
3. Bring the outside in and **connect to campus spaces**
4. Become a **vibrant Academic Hub** on the south side of campus, acting as a magnet for students of all fields of study
5. Provide **flexible research, teaching & learning spaces** that can adapt to future needs and enhance collaboration between disciplines
6. **Celebrate and display the exciting research** taking place
7. Set an example for **sustainability and resiliency** considering both human and environmental ecologies
8. Support **“CDIS Without Borders”** which will serve K-12 and the existing workforce in addition to campus

CDIS PROGRAM



Main Entry at University and Charter

Main Entry at University and Charter

View down University looking East

Southwest Aerial

CDIS will set an example for sustainability and resiliencey on the Madison campus considering both human and environmental ecologies.

– CDIS Project Goals

HUMAN EXPERIENCE

SUPPORT CDIS MISSION

- Qualitative measures of research capability
- Measured learning outcomes
- Includes pre- and post-occupancy surveys to determine support of CDIS mission
- LEED Platinum equivalent

EQUITABLE ACCESS + COMMUTES

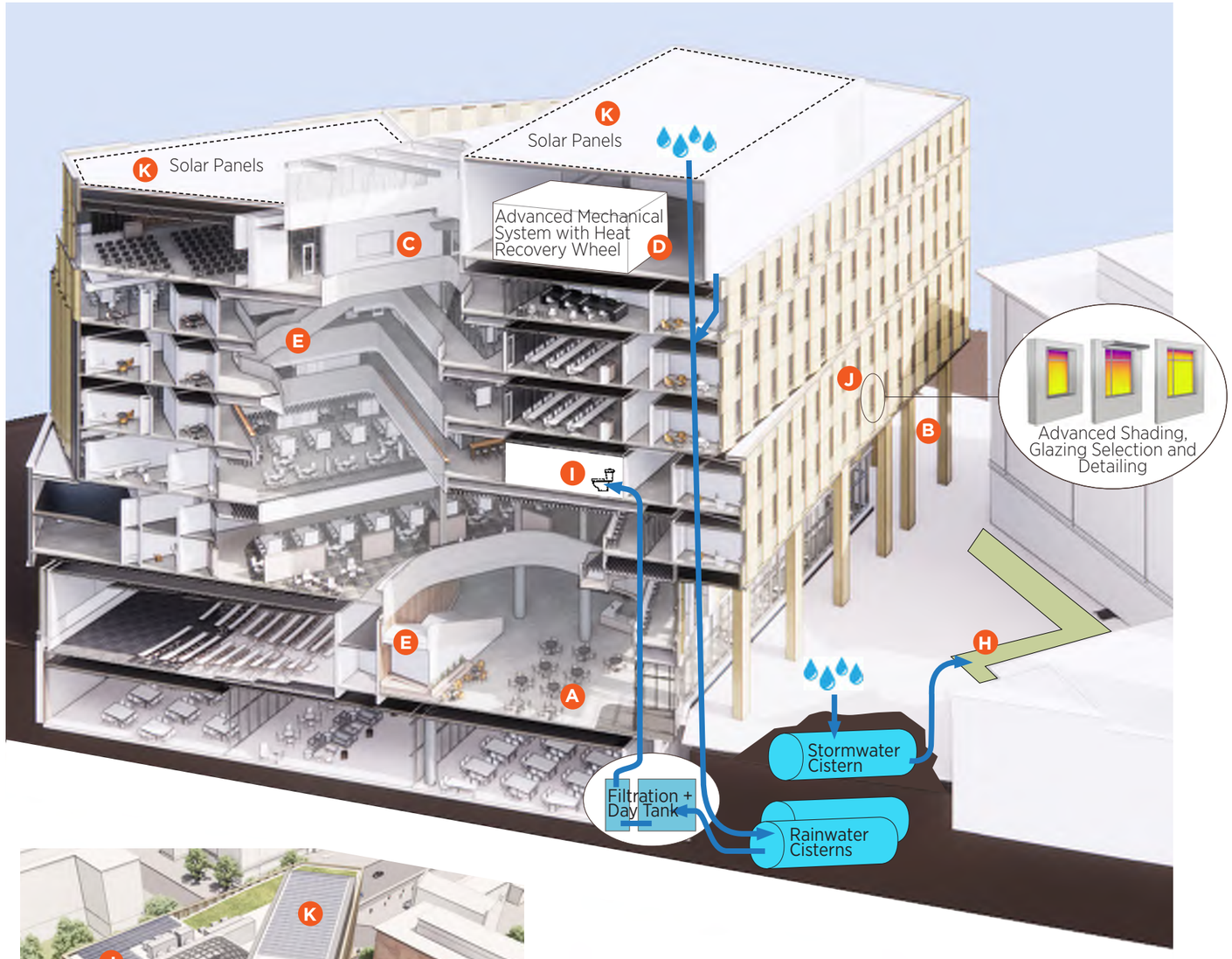
- A Inviting lobbies to encourage access and interaction
- B Accommodating bike racks + showers
- Clear, designated access to public transit
- Lactation rooms
- Single-stall bathroom availability

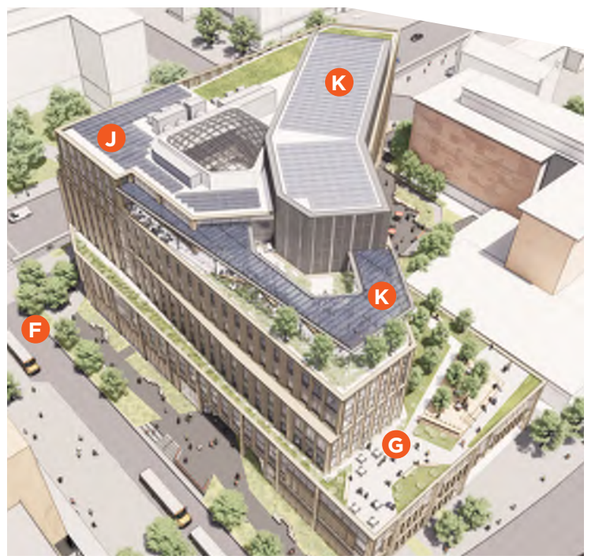
HEALTHY INDOOR ENVIRONMENT

- C Regular access to daylight at perimeter and daylight atrium
- 30% increase in fresh air supply
- D MERV 13 filters to increase indoor air quality
- Passive ventilation

WELLNESS

- Wellness emotional + spiritual health
- Regular measurement of student emotional well-being after opening
- E Inviting stairways to encourage physical activity and discourage elevator use





ECOLOGY

ECOLOGICAL ENHANCEMENT

- F Enhancing site biophilia and reducing the urban heat island effect with green roofs and plantings at ground level
- Dark-Sky compliant lighting strategies
- Bird collision deterrence

STORMWATER MANAGEMENT

- G Occupiable and landscaped green roofs
- H Structured stormwater capture and re-use for irrigation at grade and green roofs
- I Structured rainwater capture and re-use for restroom flush fixtures
- Maximizing permeable surfaces on site

100+ YEAR BUILDING

- Flexible planning to accommodate program evolution
- J Integrating with nearby architectural character
- High-performance building envelope design

RESILIENCE STRATEGIES

- Innovative resilience risk assessment - Second Nature

USE OF RESOURCES

ENERGY AND CARBON

- Energy use reduction meets ASHRAE 90.1 2016
- Advanced envelope with shading to increase comfort
- Use of high-efficiency biomass central plant
- K Solar Panels on rooftop + Solar Trellis

POTABLE WATER

- 35% better water use reduction than federal standards

MATERIALS

- Locally sourced and salvaged materials
- Reduce emissions from materials sourcing