Impacting Campus Performance
Advancing the Spatially Enabled Smart Campus

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Mission

Colleges and Universities strive “to create knowledge, to open the minds of students to that knowledge, and to enable students to take best advantage of their educational opportunities.” Harvard College Mission Statement
All campuses have these
All campuses have these expenses
Which expenses can we impact?
(1) Space and Operational Activities

- Annual Operating Expenses
  - Employment and Services
  - Other Expenses
  - Supplies
  - Equipment
  - Space
Impact of Operational Efficiency

“And to the extent that we are able to achieve efficiencies in some of these shared activities, those savings can be reinvested in the teaching and research that we feel so passionately about here.” Harvard President, Drew Faust
Redistribution of Finite Resources

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Operational Savings = Resources for Learning
How do we create better environments for learning?
How can a spatially enabled Smart Campus impact:

Space and Operational Activities

The Learning Environment
Space and Operational Activities

TODAY
Space and Operational Activities

TOMORROW

Space is utilized optimally –

*Do we still need private offices?*
Space and Operational Activities

TOMORROW

Maintenance and Operations that optimize resources –

*Clean, cool, heat, light what is occupied*
Space and Operational Activities

TOMORROW

Integrated Building Information Models (BIM) –

3D representations of buildings that inform and are informed by spatial information
Space and Operational Activities

TOMORROW

Tools to plan and inform transit, locate resources, enable information collection
Space and Operational Activities

TOMORROW

Optimally utilized space

Maintenance and Operations that optimize resources

Integrated Building Information Models (BIM)

Tools to plan and inform transit, locate resources, enable information collection

ALL OF THE ABOVE support sustainable development and operation
The Learning Environment

TODAY
The Learning Environment

TOMORROW

More productive interactions and facilitate “community” –

*Reduce the barriers to collaboration and social networks*
The Learning Environment

TOMORROW

Improved learning environments –

How about office hours that aren’t in an office?

Easier location of and access to resources.
The Learning Environment

TOMORROW

Students that are engaged in the use and development of spatially aware solutions –

_Campus information and real life problems for research_
What needs to be in place to achieve this?

Information and Information Systems

Technology

Ethical framework

Spatial aware users
Making the Case

Create the best possible educational opportunities

Operational Savings
Moving Forward

Strategy for improving organizational efficiency through a spatially enabled the Smart campus