



Building Collaborative Workspace:

Changing the way real estate is built, managed and used

u-Forum

Dr. J.W. Jay Chung jaychung@cisco.com

APAC MFG Lead

Internet Business Solutions Group

Building Collaborative Workspace: Changing the way real estate is built, managed and used

- **Changes in Workplace Needs**
- **Proof of Concept: Cisco B14 in SJ Campus**
- **Why NETbuilding: Converged Real Estate Operation**



1. Changes in Workplace Needs



Business Careabouts

Business Challenges

- Misalignment between biz processes and systems
- Lack of proper data/information on time
- Conflicts and Redundancy in Communication Channels and Devices

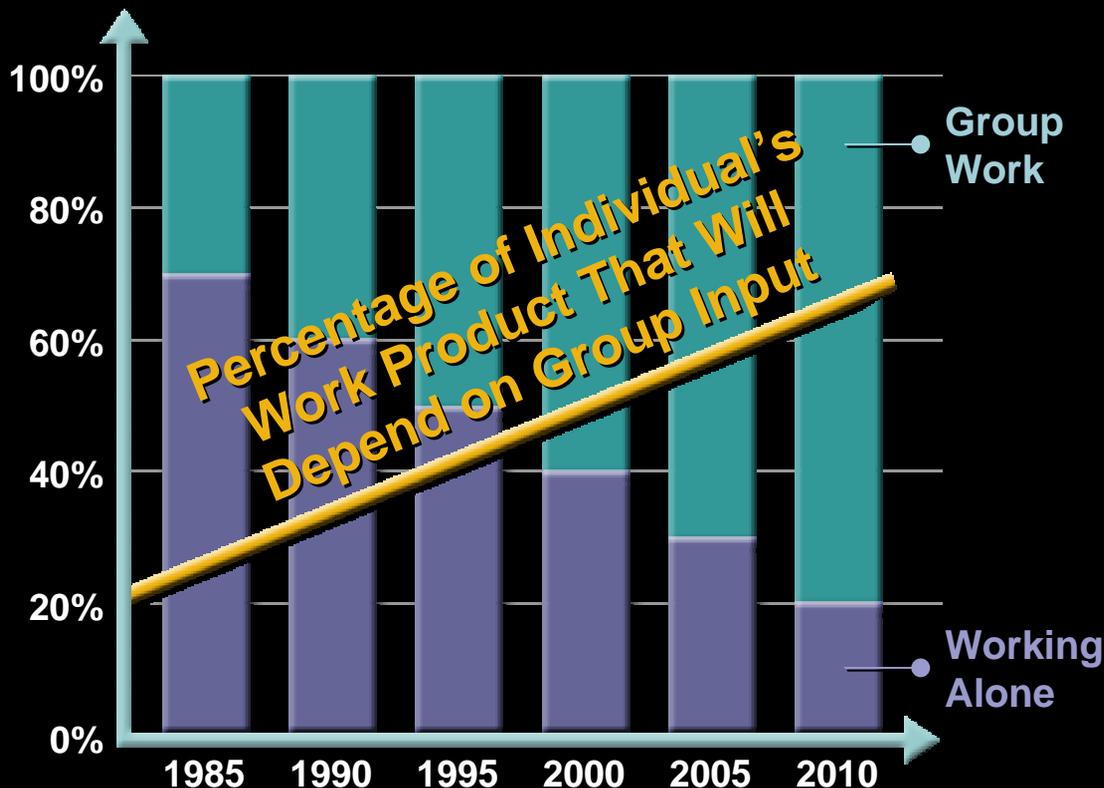
3 Major IT Interests of Line of Biz Executives*



* IDC, Line-of-Business Executive Survey, June 2004

Two Major Changes Are Driving Workplace Design

THE WAY PEOPLE WORK IS CHANGING Work Done in the Office Is Increasingly Collaborative



Source: Gartner Dataquest, 2002

INFRASTRUCTURE IS MORE MOBILE You No Longer Need to Be in One Place to Be Productive

- Lap-tops and other mobile devices
- Web-based applications
- Wireless Network
- Internet Based Telephony and Video
- Collaboration Software
- VPN and Network Security



There is an Opportunity to Save Money and Improve Collaboration

Why Do You Come into Work?

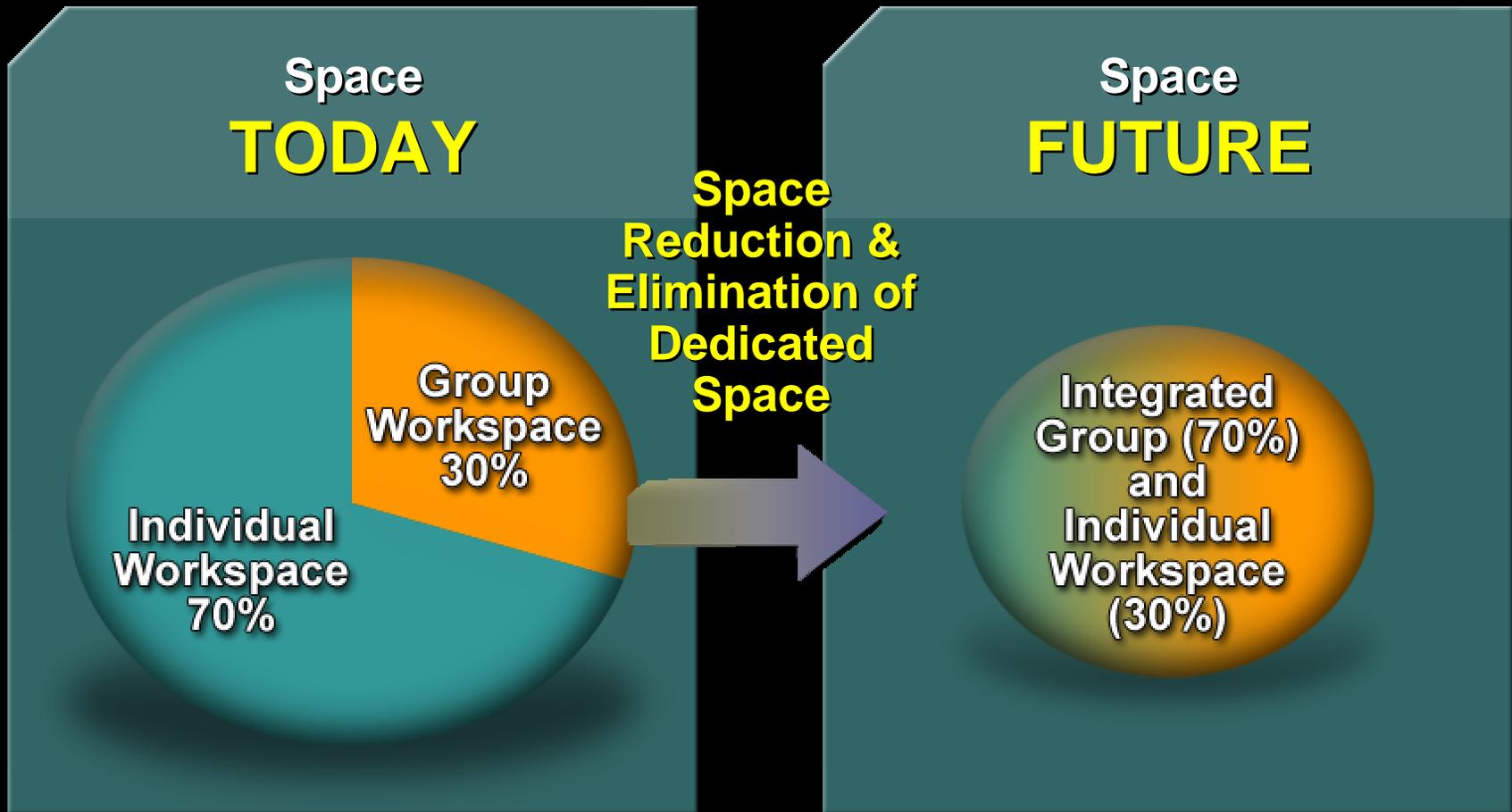
Utilization **True Utilization is Poor**



Issues with Current Space

- Even at full occupancy, companies waste more than 60% of their space. This is enormously costly.
- Work environment design (office / cube) actively drives isolation
- Insufficient collaborative space is impeding work
- Offices lack “buzz”
- People don't have options regarding their environment

Companies Can Save Money & Drive Collaboration by Rethinking the Work Environment



Opportunity: Next Wave of Employee Productivity

Significant workplace trends (with implications) converging today:

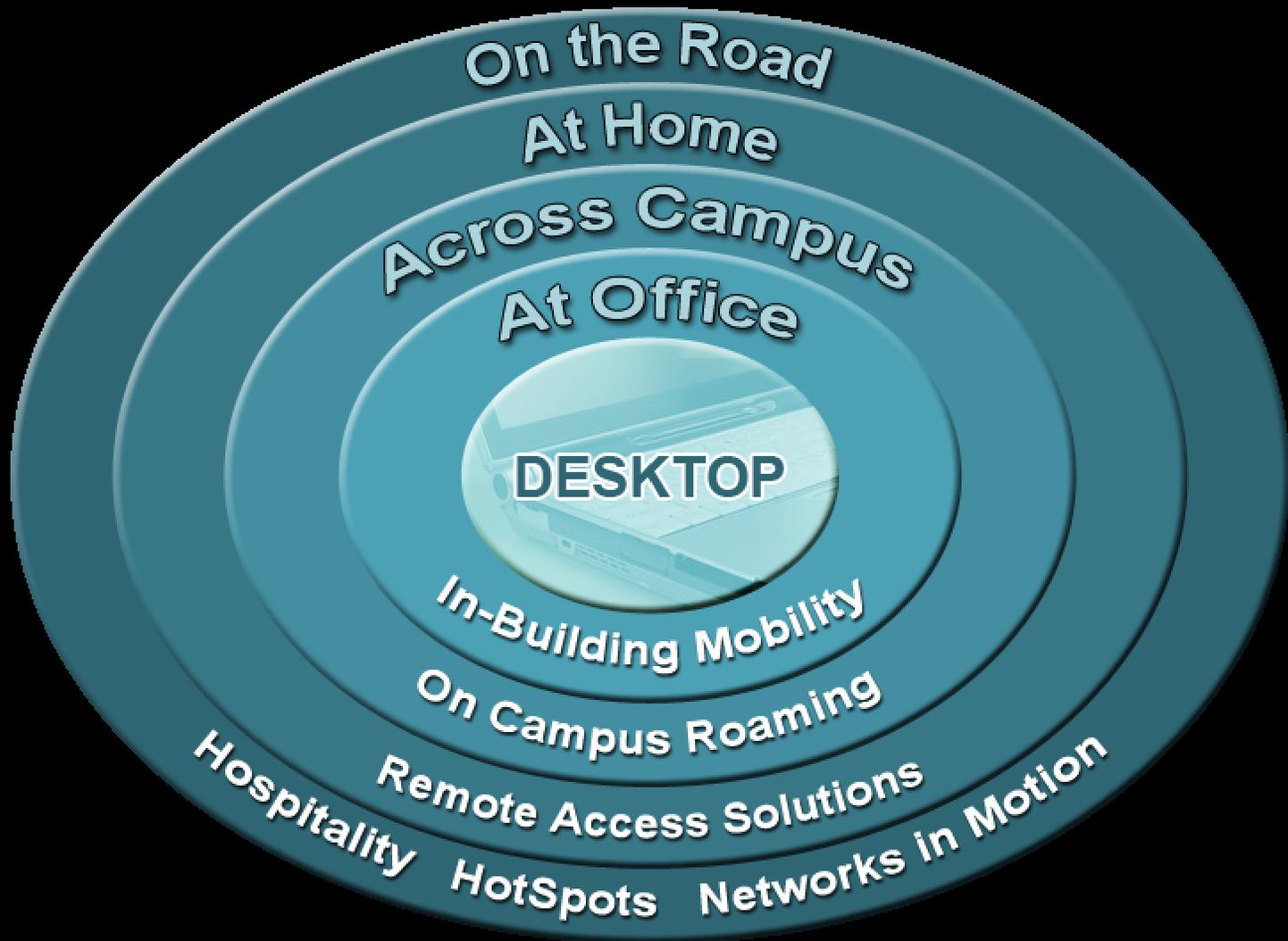
- **Inefficient use of office space**
 - Cubicles and offices often vacant while meeting rooms in short supply
 - Work done in the office is increasingly collaborative
 - Individual and group workspaces are being integrated (and shrinking in the process)
- **Increasing numbers of mobile workers**
 - Traditional, cubicle office environments slowly changing to meet the needs of its more mobile, collaborative working groups/teams
 - Network will be the enterprise
- **Advances and adoption in networking technology**
 - Wireless, IP communications, networked storage, security, networked home



What is the next wave to enhance and capture productivity after e-enablement?

Expanding The Productivity Zone

Optimizing Space Use, Mobility & Collaboration



Proof of Concept: Cisco Building14

2

Cisco's Real Estate Portfolio

A Laboratory for Innovative Technology Solutions

Portfolio: **16M SF**

Persons Housed: **41,000**

Countries: **90**

Buildings: **400**

Leased: **80%**



**NETWORK INFRASTRUCTURE PRODUCTS
& SERVICES ARE CISCO'S CORE BUSINESS**

95% OF OUR REAL ESTATE IS OFFICE AND R&D USE

Workplace Effectiveness

The Goal of Workplace Effectiveness Is to Design Innovative Workplace Environments That:

- Lower cost
- Increase worker productivity
- Increase employee satisfaction

WPE's Solutions Must:

- Demonstrate the importance of Cisco technology in creating its solutions
- Foster teamwork by emphasizing collaboration & social interaction



Proof of Concept: Building 14 San Jose

WHO (Participants):

WPR, IT Infrastructure, WPR-IT, WPR-Finance, HR Creative Learning Studio and IBSG Innovations (seats 140 people compared to 88 people in the old cubicle environment)

WHAT:

Connected workplace proof of concept (POC) for G&A employees that incorporates a variety of work settings for both individual/team work and advanced technologies to improve employee productivity/satisfaction, encourage collaboration and innovation and reduce real estate/IT costs

WHEN: Launched July 2004

WHERE: Building 14, 1st floor, Cisco Headquarters San Jose

WHAT FOR (to date): CUT \$\$\$

- Real Estate rent by 37%
- Construction costs by 42%
- Furniture costs by 50%
- IT capital spend (switches and switch ports) by 40%
- Early survey results indicate increases in satisfaction and collaboration

WHAT'S NEXT:

- Sales POC (Charlotte, NC 10/04), Engineering (San Jose), Call Center (non-US)



What's Different about Our Effort?

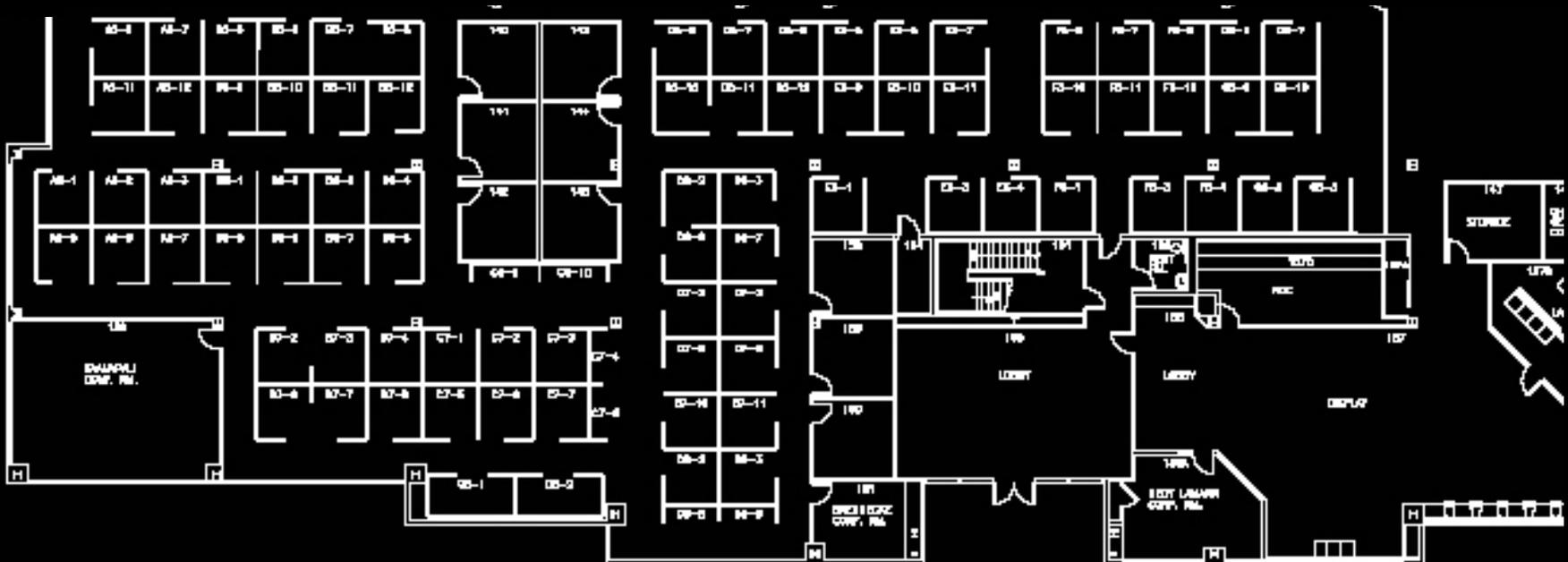
- **Focuses on team rather than individual**
 - Default to collaborative environments
 - Focus on “home” not shared office / cube
- **Makes the office more important, not less**
- **Emphasizes technology**
 - Constantly look at new technologies to understand how they can change the workplace
- **Avoidance of reservation systems**
 - Rely on the “invisible hand”
- **Balance between the three major objectives**



Traditional Space Is Poorly Utilized

Why Do You Still Come to the Office?

- Work is more complex, collaborative, distributed and global in nature
- Technologies are untethering the worker and the framework for where, when and how work is accomplished



More Than a Workplace

Today's Collaborative & Mobile Environment

- Creative space solutions favor collaboration and teamwork - and increase asset utilization significantly
- Innovative technology solutions improve business performance



Network-Enabled Technologies

Supporting Mobility in the Workplace Environment

- **Wireless Network**
- **Mobile Computing**
- **Internet Based Telephony**
- **Internet Based Video**
- **Content Delivery & Storage**
- **Virtual Private Network & Network Security**
- **Collaboration Software**



Cisco Connected Workplace

Improved Asset Utilization Is Lowering Costs

Cable Infrastructure	- 50%
IT Infrastructure	- 55%
Furniture	- 45%
Space Demand	- 50%



Cisco Connected Buildings

We Reduced Our Operational Costs Significantly

Annual Operational Cost Savings **30%**

Safety & Security (Globally) - \$10M

Building Management (San Jose) - \$ 7M

Capital and Labor Cost Savings **50%**

**Converged Infrastructure for
Greenfield Opportunity**



Workplace Effectiveness Roll-Out

FOUR MAJOR SOLUTION TYPES

1. Engineering
2. Sales
3. Engineering
4. Sales

POC 1 – 2

- G&A – SJ B14, Complete
- Sales – Charlotte, Complete
- Engineering – TBD FY'06
- Call Center – RTP, FY'06

Limited Deployment 4 – 6

- G&A – FY'06
- Sales – FY'06 w/FSO
- Engineering – TBD
- Call Center – TBD

Standard Deployment

- Begins FY'07 – FY'08

Overall Evaluation of Cisco Connected Workplace POC

% who “agree” or “strongly agree” (n=69):

Compared to my previous work environment, it is easier to find a place to meet in the B14 POC.	80%
Given a choice, I would prefer to work in B14 or “B-14-like” environments than my previous work environment.	77%
My experience in B14 was better than I expected.	70%
Compared to my previous work environment, it is easier to find a quiet place to work in B14.	62%
Communication with my work unit colleagues has improved in B14.	62%
I enjoy coming to work more since moving to B14.	62%
Communication with my manager has improved in B14.	47%

% indicating “more” or “much more productive” (n=99):

Individual productivity over the last six months has improved.	51%
Work unit productivity over the last six months has improved.	46%

% indicating “greatly” or “significantly enhanced” (n=99):

Impact on the quality of interaction/networking with other Cisco organizations by the end of the 6 month period.	49%
---	------------

% “satisfied” or “extremely satisfied” (n=99):

Overall effectiveness of technologies	67%
Overall effectiveness of the workplaces	74%

Reduce Real Estate and Technology Costs

Cost Category	Savings*
Real estate rent Accommodating more people in the same amount of space	37%
Construction Building a smaller space than typically required for 140 employees	42%
Workplace services Reducing utilities and maintenance costs, and nearly eliminating the costs of moves, adds, and changes for workspaces through the use of flexible furniture settings	37%
Furniture Purchasing less (and less expensive) furniture than typically used in cubicles	50%
IT capital spend Spending less on switches and switch ports	40%
Cabling Reducing the number of wired IP cables required per workspace	60%
Equipment room space Racking fewer switches because of wireless infrastructure	50%

* Data from Cisco WPR, based on B14 POC results

Cisco NEToffice Recognition

Newsweek Next Frontiers

▶ Home Page ▶ Cover Story ▶ Archives ▶ Feedback ▶ Index

Facing the Future



Ethan Hill for Newsweek

Collaborators: Cisco's Work Place Effectiveness team

Office Space: Designing Your Next Office

A workplace that will know who you are, where you are and what you're doing

Newsweek

Newsweek,
April 2003

Office Space: Designing Your Next Office
A workplace that will know who you are, where you are and what you're doing

April 28 issue — Mark Golan can't find an empty conference room. An executive at Silicon Valley tech giant Cisco is towing a reporter around the office to locate an unoccupied meeting room.

overseeing the design of the next generation of Cisco office space around the world. To him, the conference-room congestion is

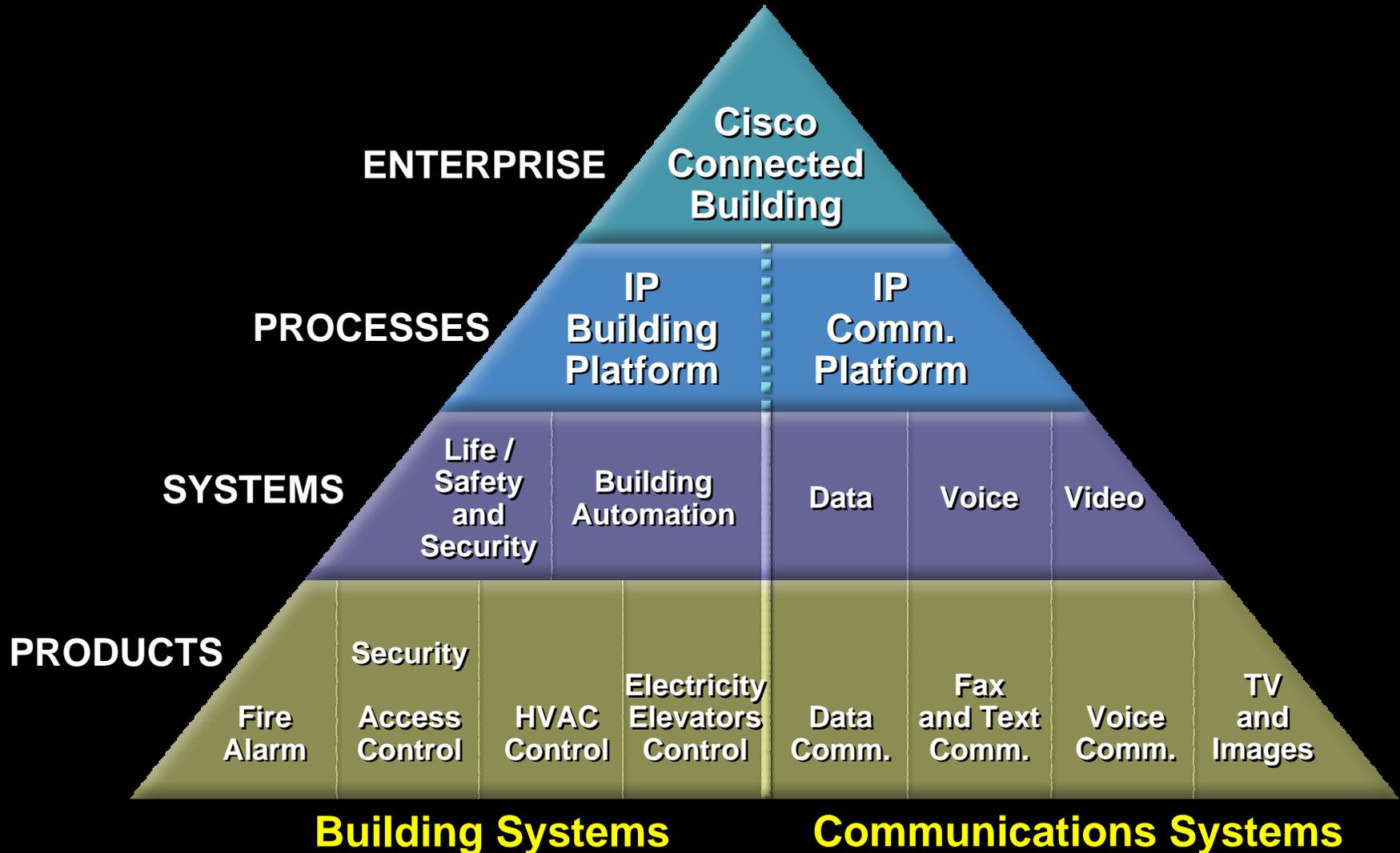
Why NETbuilding?

Convergence Real Estate Operation

3

Cisco Connected Real Estate

Connecting People & Buildings



The Network Enables Operational Innovation

- **Centralized system monitoring and control**
- **Workforce optimization**
- **Improved services level**
- **Simplified network installation**
- **Simplified network architecture**

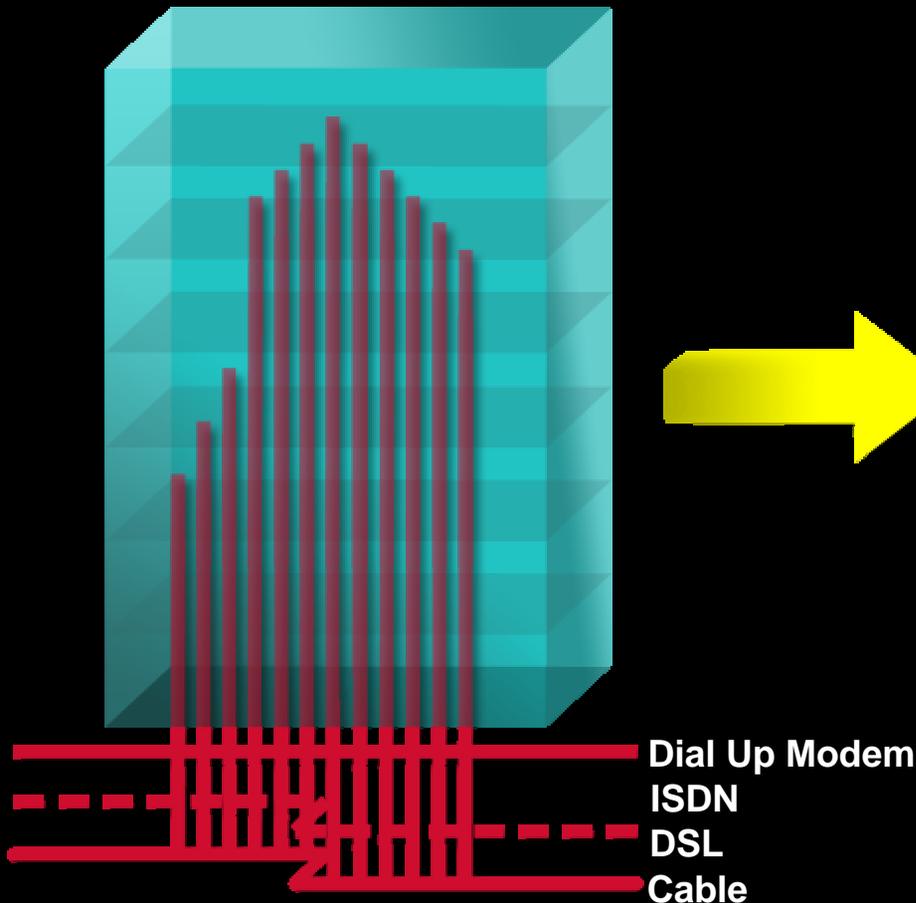


Cisco Connected Real Estate

The Network Becomes the “4th Utility“...

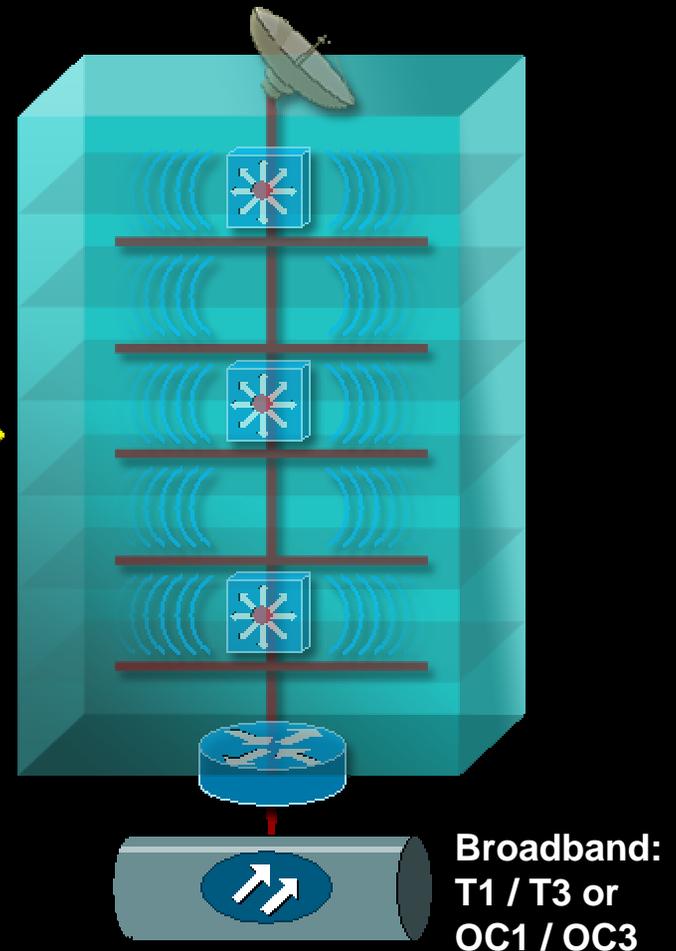
LEGACY

User Provided



TODAY

Owner Provided



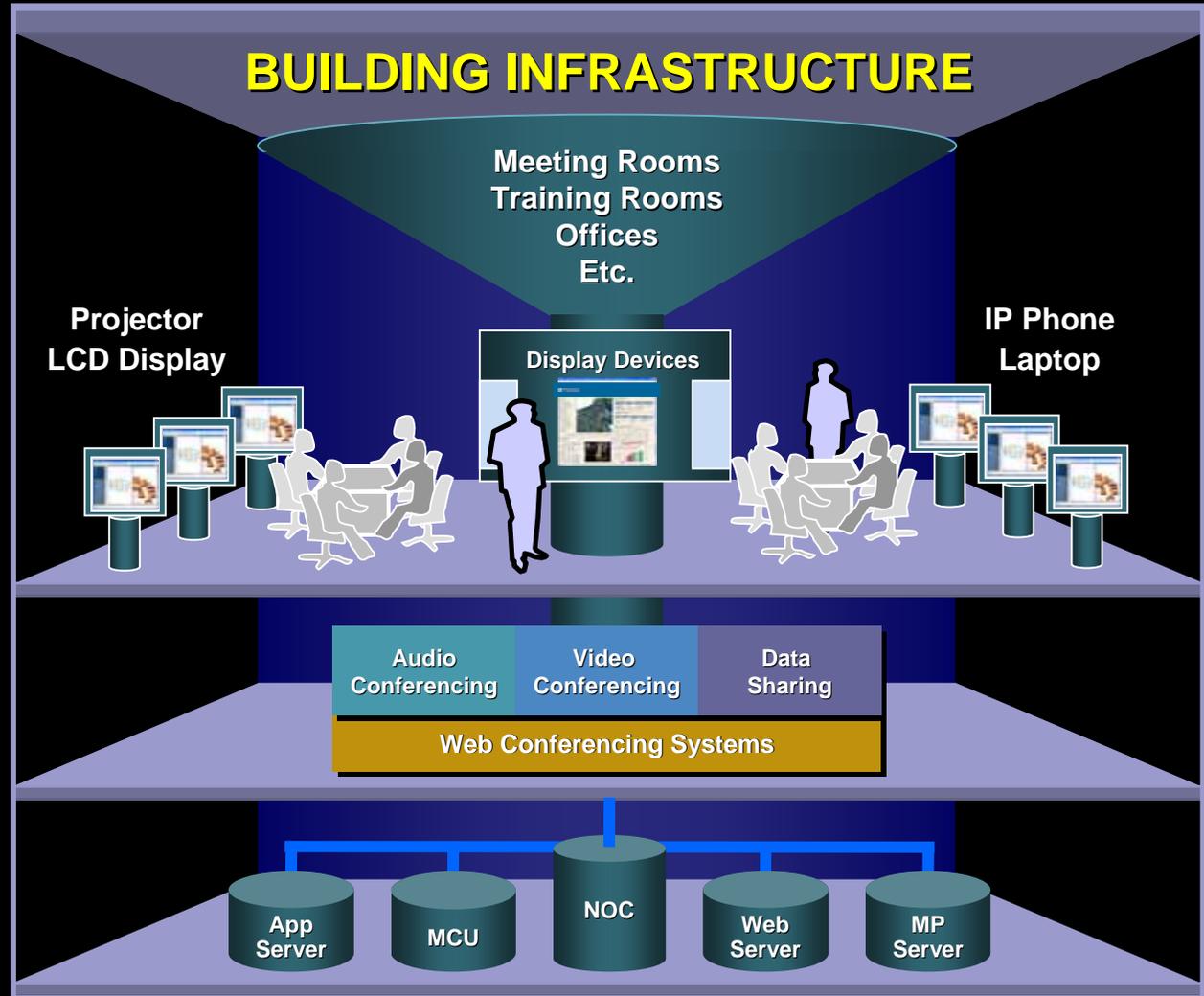
Cisco Connected Real Estate Is Delivering Communication Services to Users...

**Human
Interface**

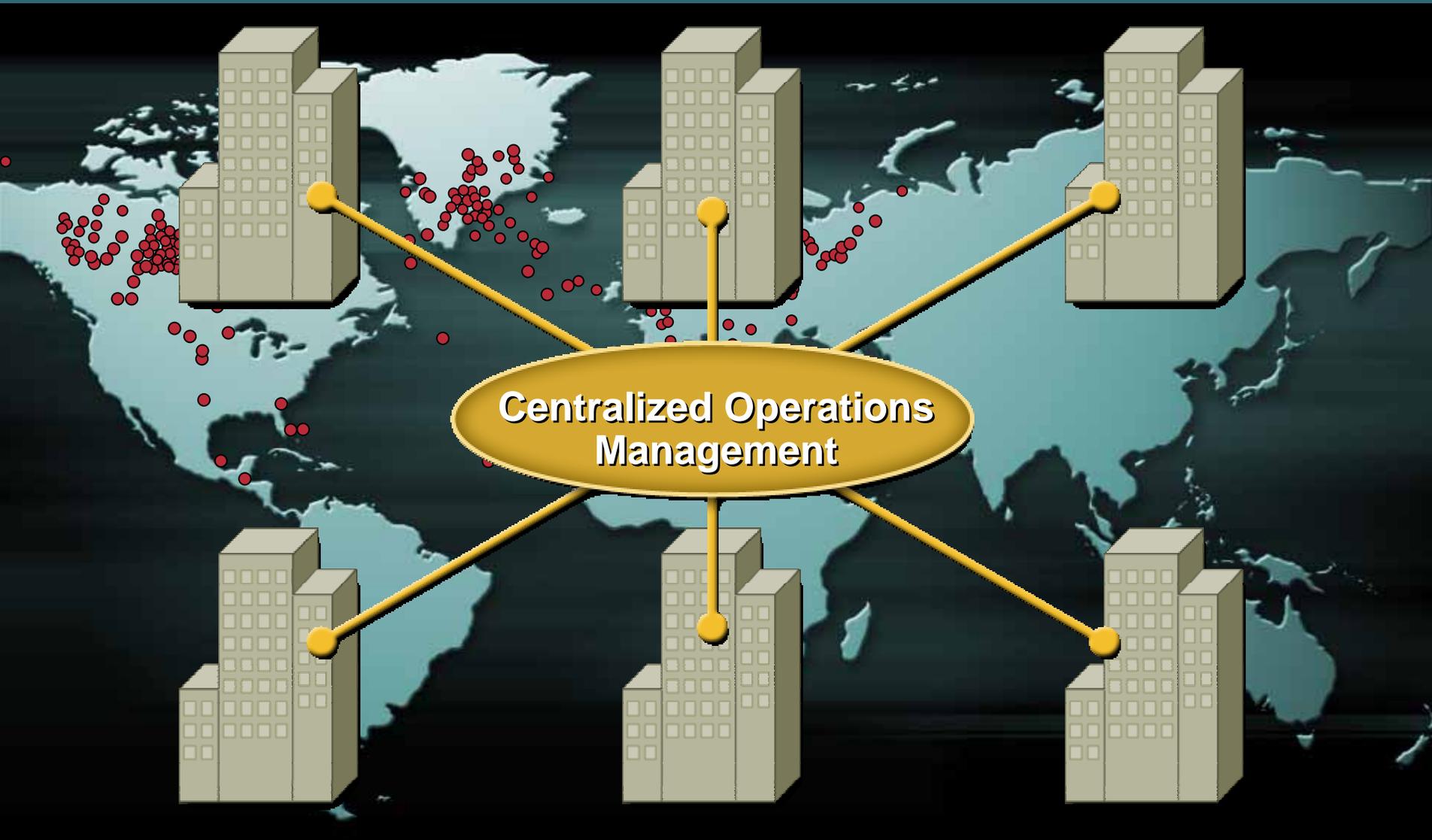
**Building
Component**

Application

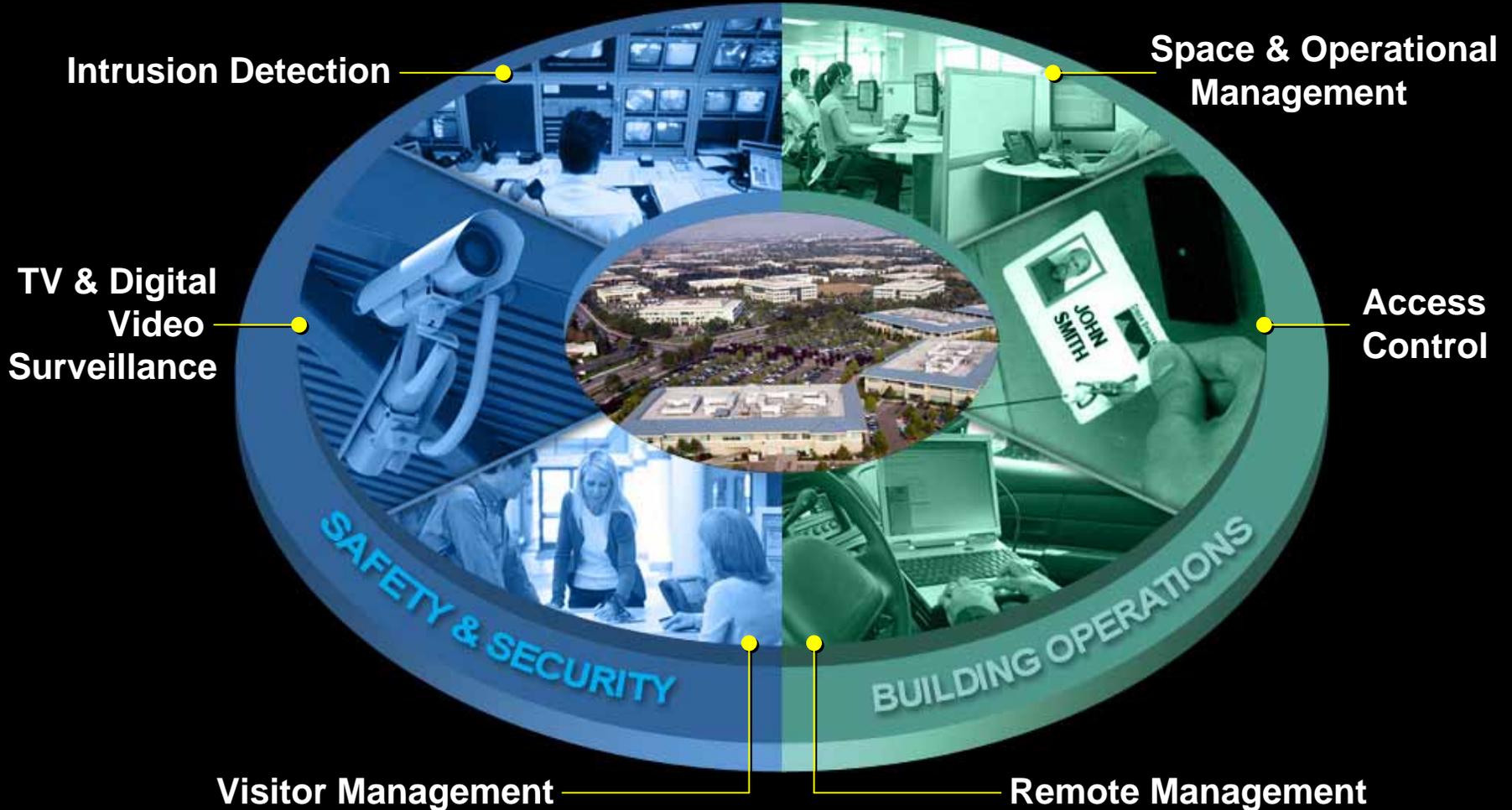
Network



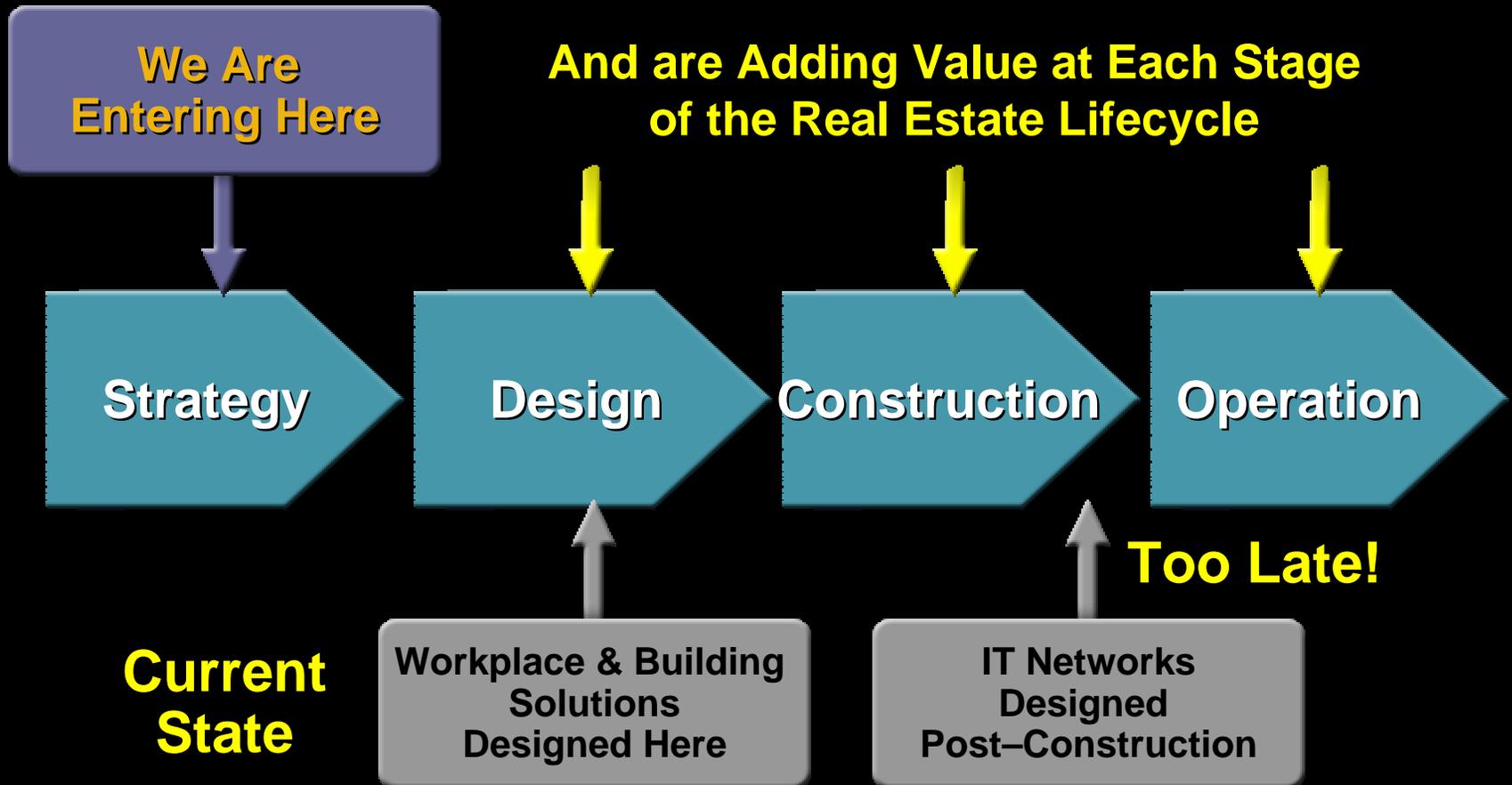
Centralized Operations & Remote Services Across the Entire Real Estate Portfolio



Safety, Security and IT Converged Across Our Entire Real Estate Portfolio



Increasing Real Estate Values By Integrating Real Estate & Networking Solutions



CISCO SYSTEMS

