

# Co-Development Survey Results

*Includes participants from*

- ◆ *Management Roundtable Conference*
- ◆ *Product Development Management Association*
- ◆ *PRTM – InfoSys Co-Dev Seminar*

January 27, 2003

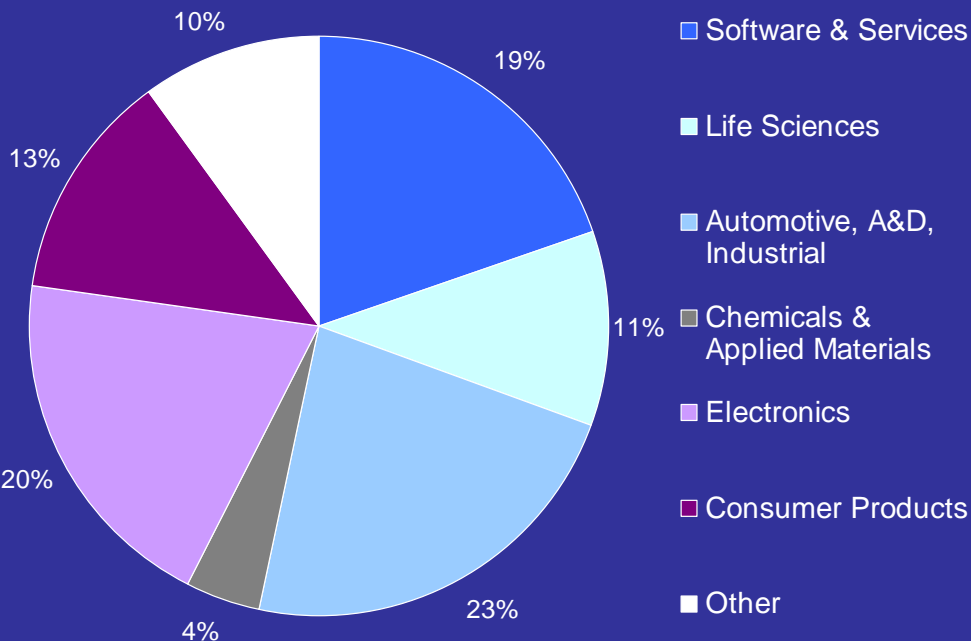
Pittiglio Rabin Todd & McGrath



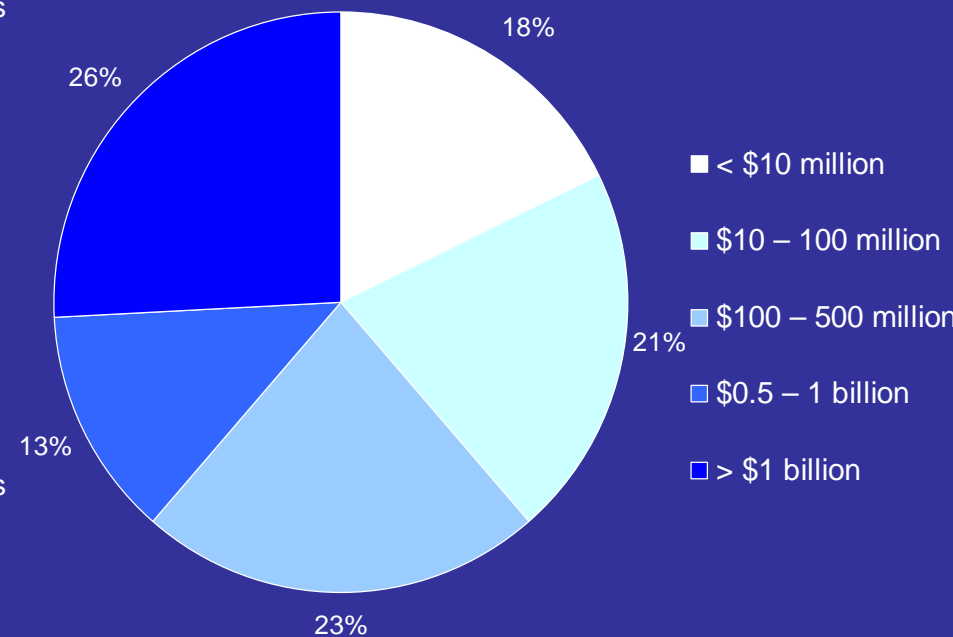
# Survey participants provide a good industry and company size cross-section

164 participants as of January 2003 (database started January 2002)

## Participants by Industry

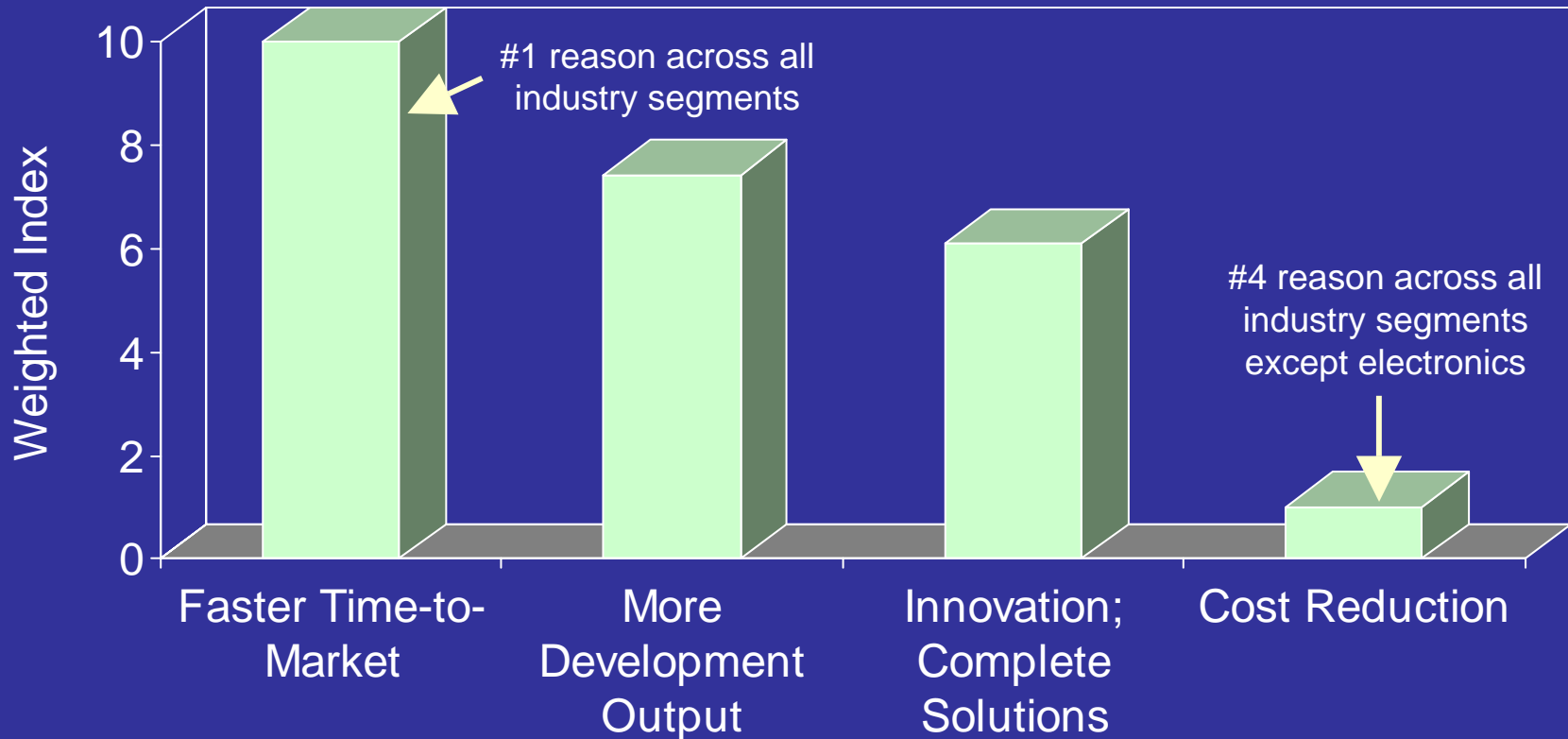


## Participants by Size (Annual Revenues)



# Faster time-to-market is the leading reason for undertaking co-development

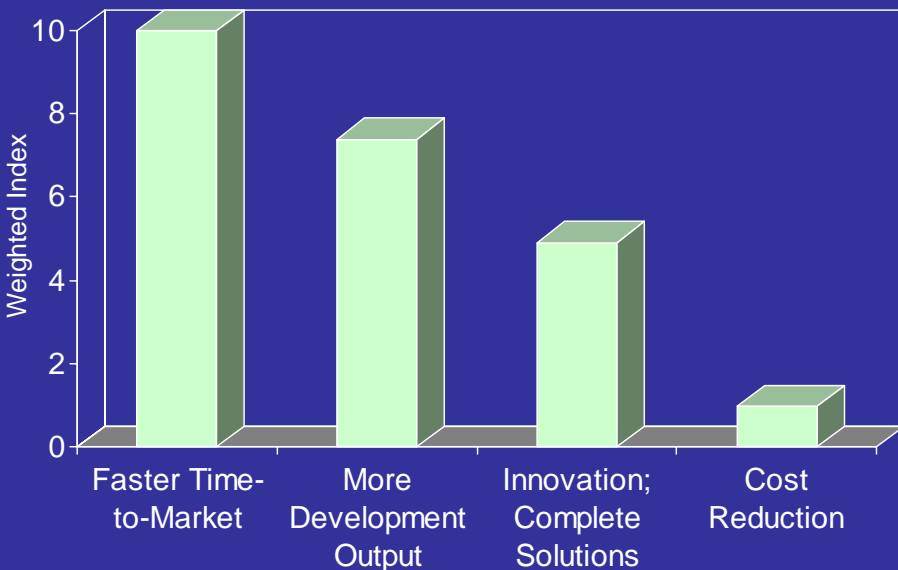
## Relative Importance of Reasons for Co-Development



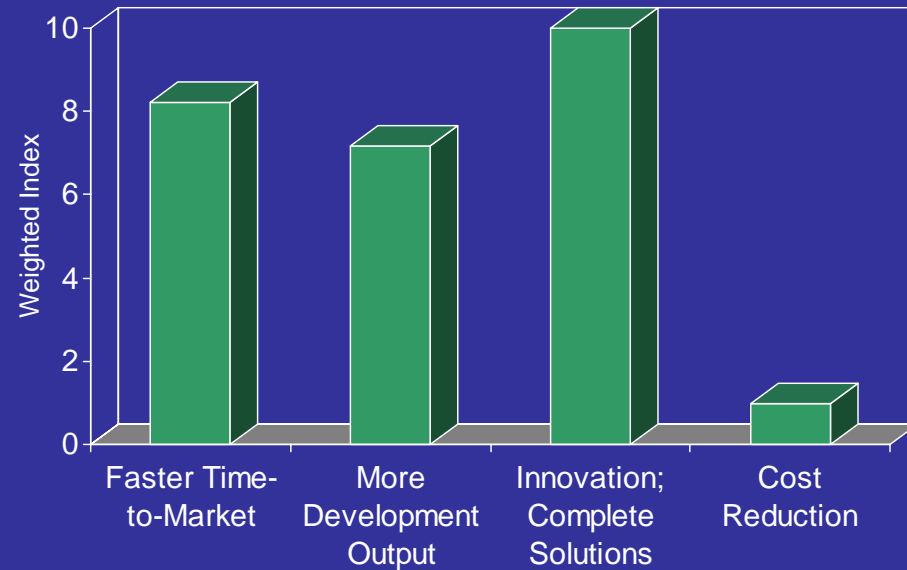
# Time-to-market is the #1 motivator for small companies, and innovation is for large ones

## Relative Importance of Reasons for Co-Development

Small Companies (<\$500M Revenues)

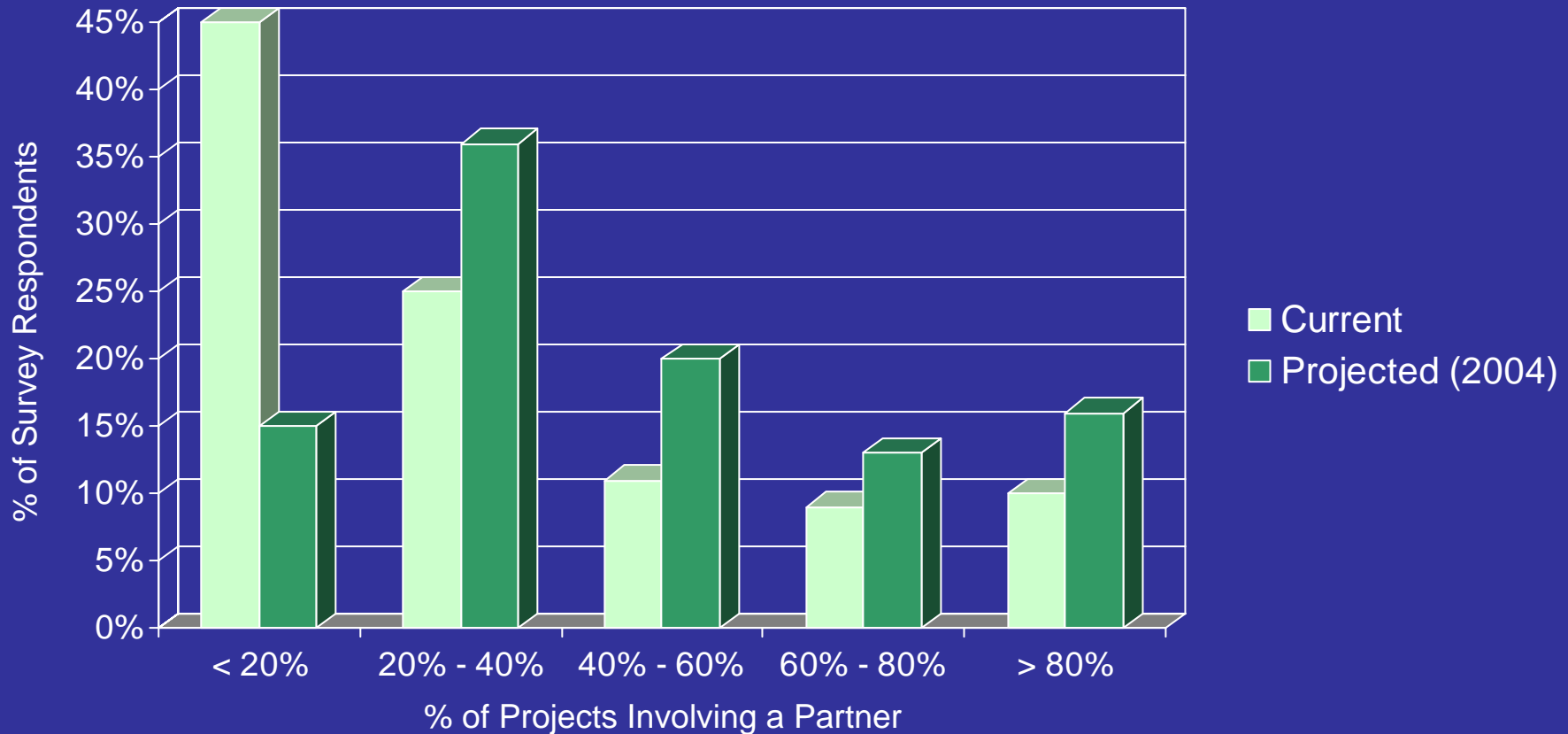


Large Companies (>\$500M Revenues)



# Over the next several years, companies expect co-development to increase significantly

## Percent of Projects Involving a Defined, Strategic Partner



# Performance of co-development projects is mixed

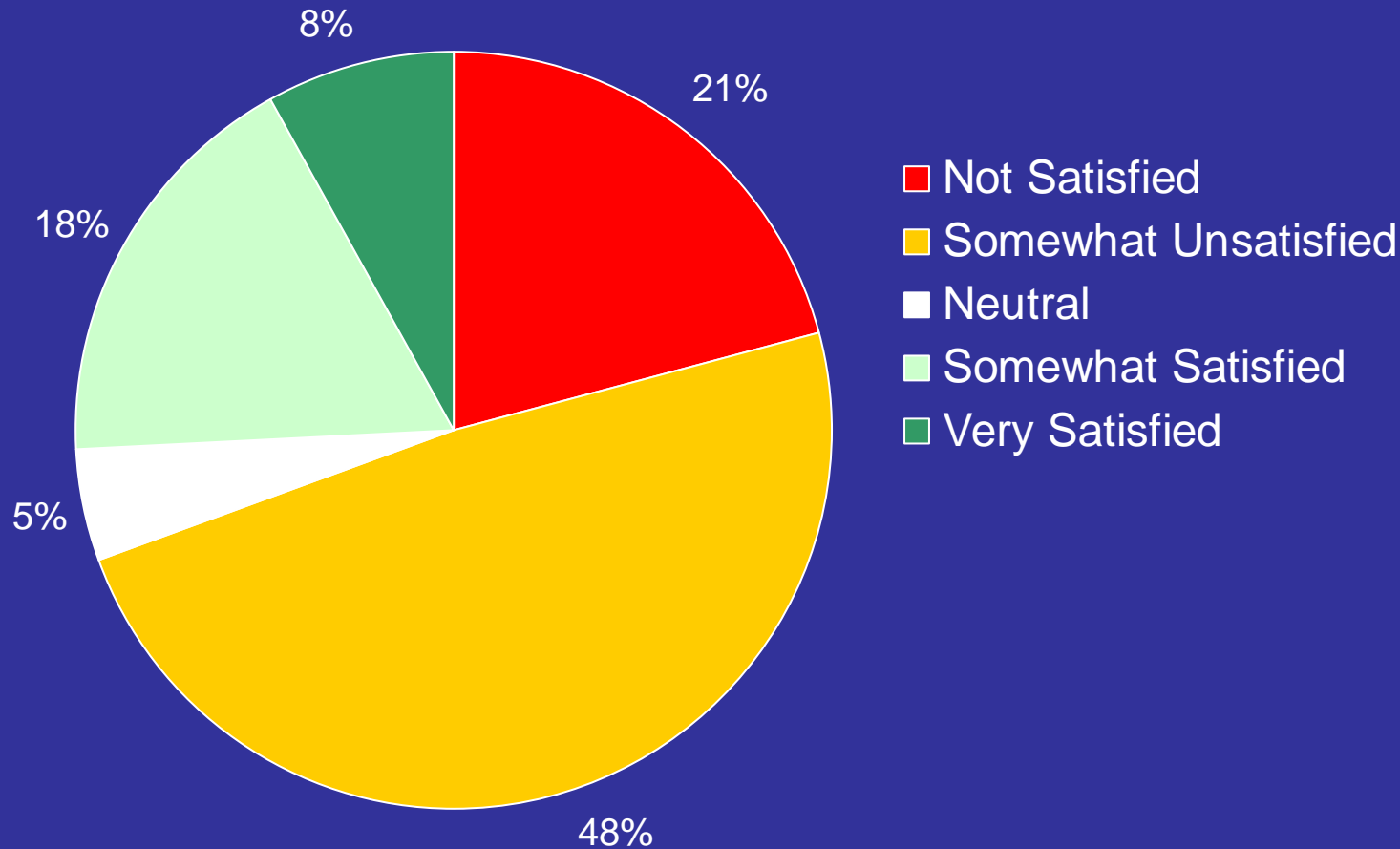
## Performance of Co-Development Projects as Compared to In-House Projects



# Over 2/3 of companies are not satisfied with their co-development efforts

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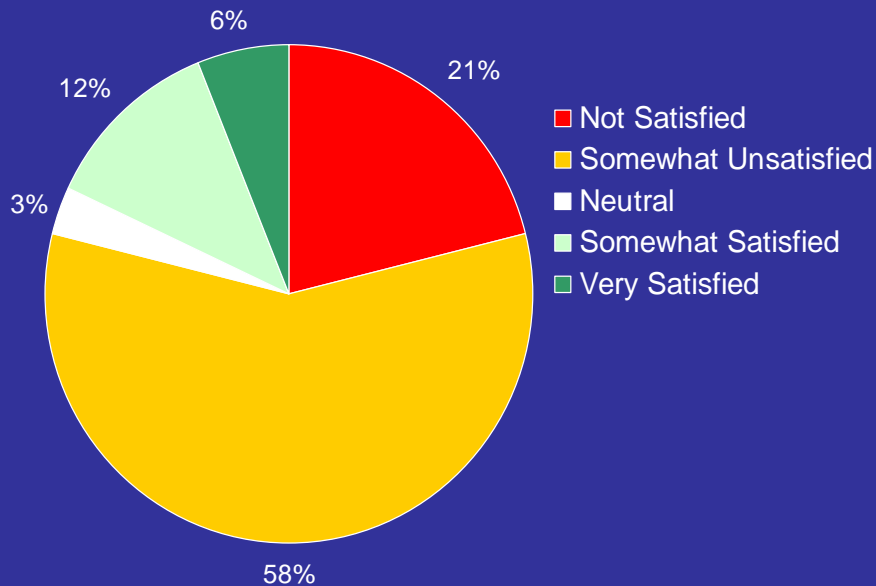
## Overall Satisfaction with Co-Development Efforts



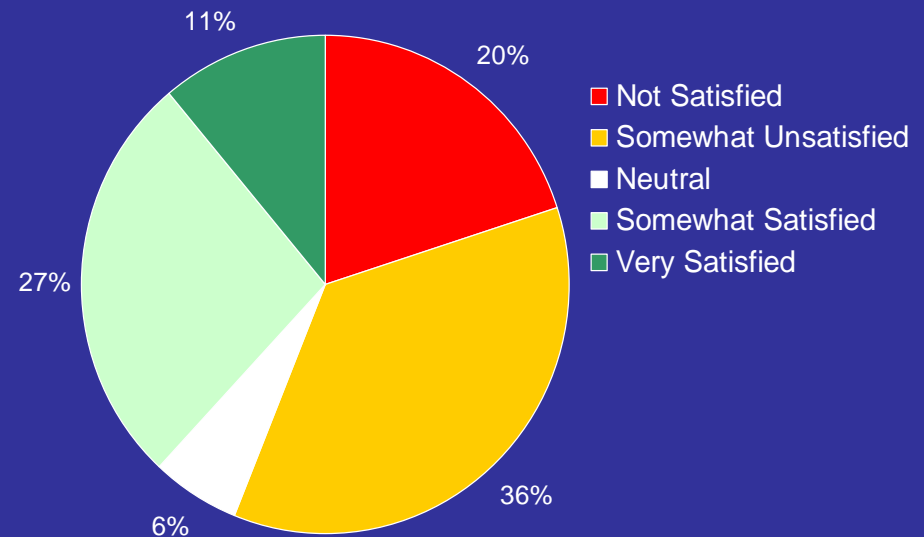
# Satisfaction with co-development efforts is starting to improve

## Overall Satisfaction with Co-Development Efforts

### September 2002 and Prior



### October 2002 and Later

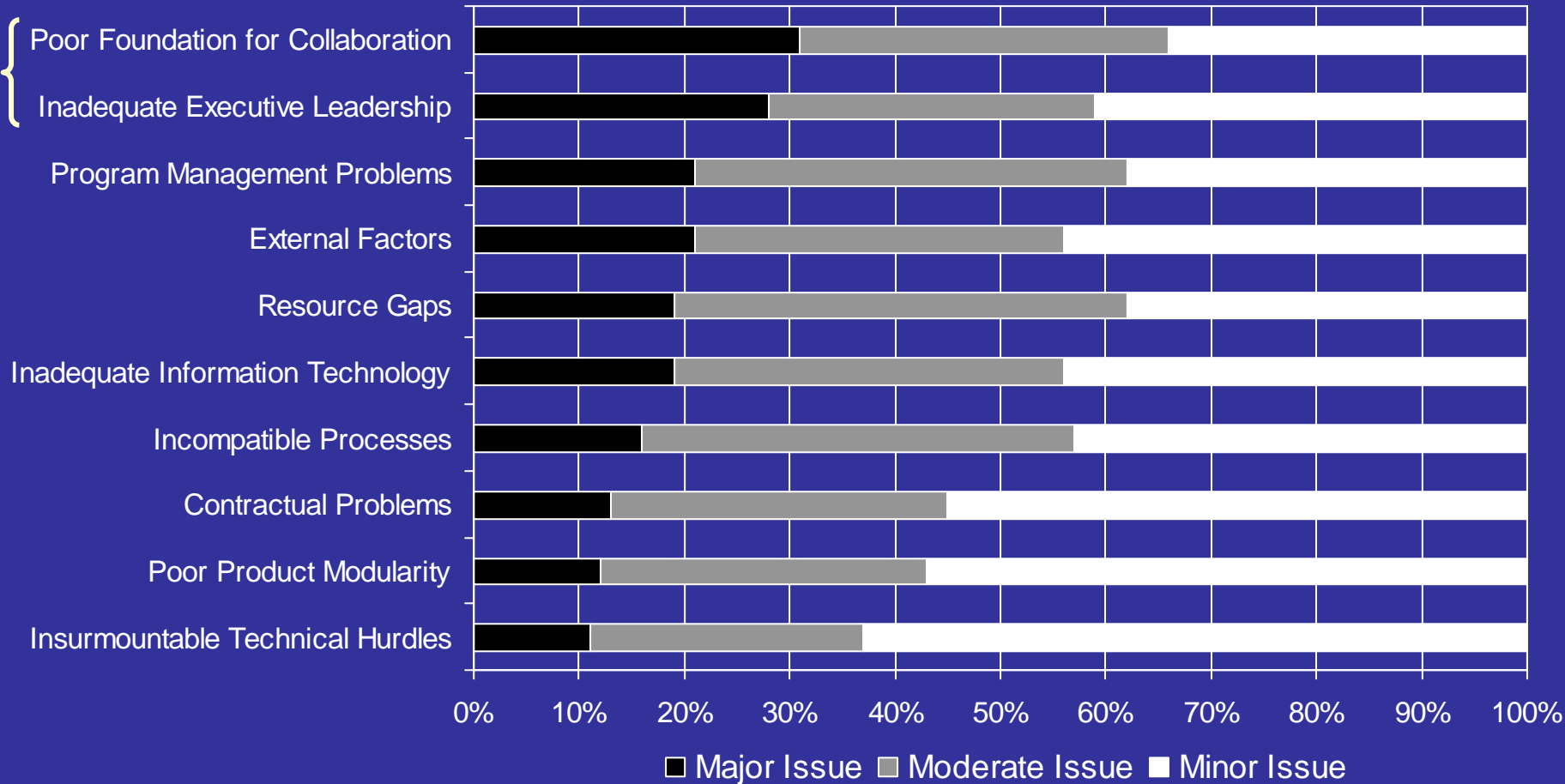




# Management issues continue to top the list of concerns

## Collaborative Development Issues

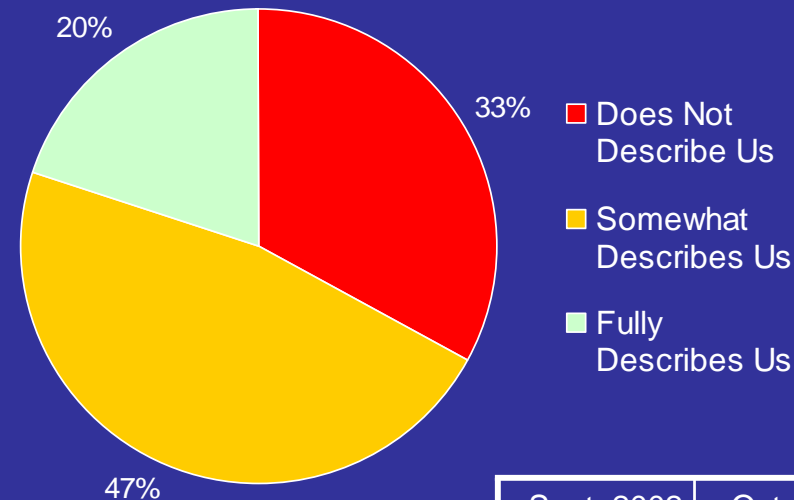
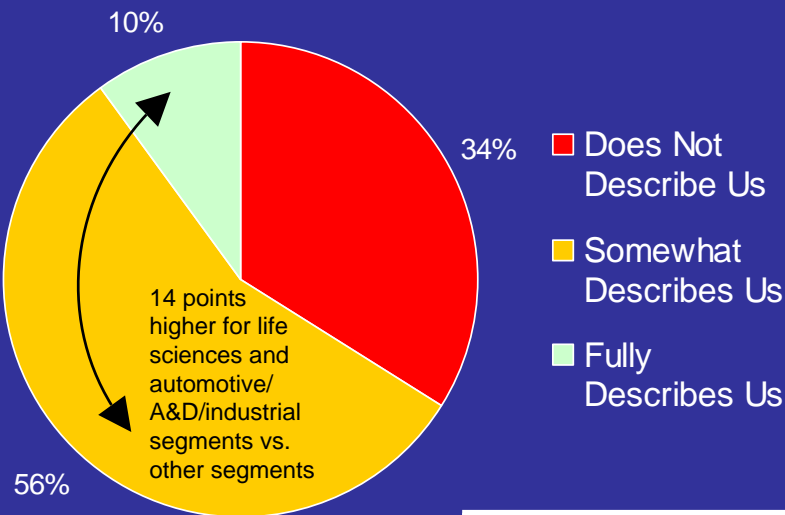
Top issues across all industry segments



# A minority of companies have a strategy and culture that fully support collaboration

**“We Have an Explicit Co-Development Strategy That Considers Business Needs, Core Competencies, and Value-Add in Delivering Solutions”**

**“We Have a Company Culture That Supports Deep Collaboration with Key Partners”**



	Sept. 2002 & Prior	Oct. 2002 & Later
Does Not Describe Us	39%	26%
Somewhat Describes Us	53%	60%
Fully Describes Us	8%	14%

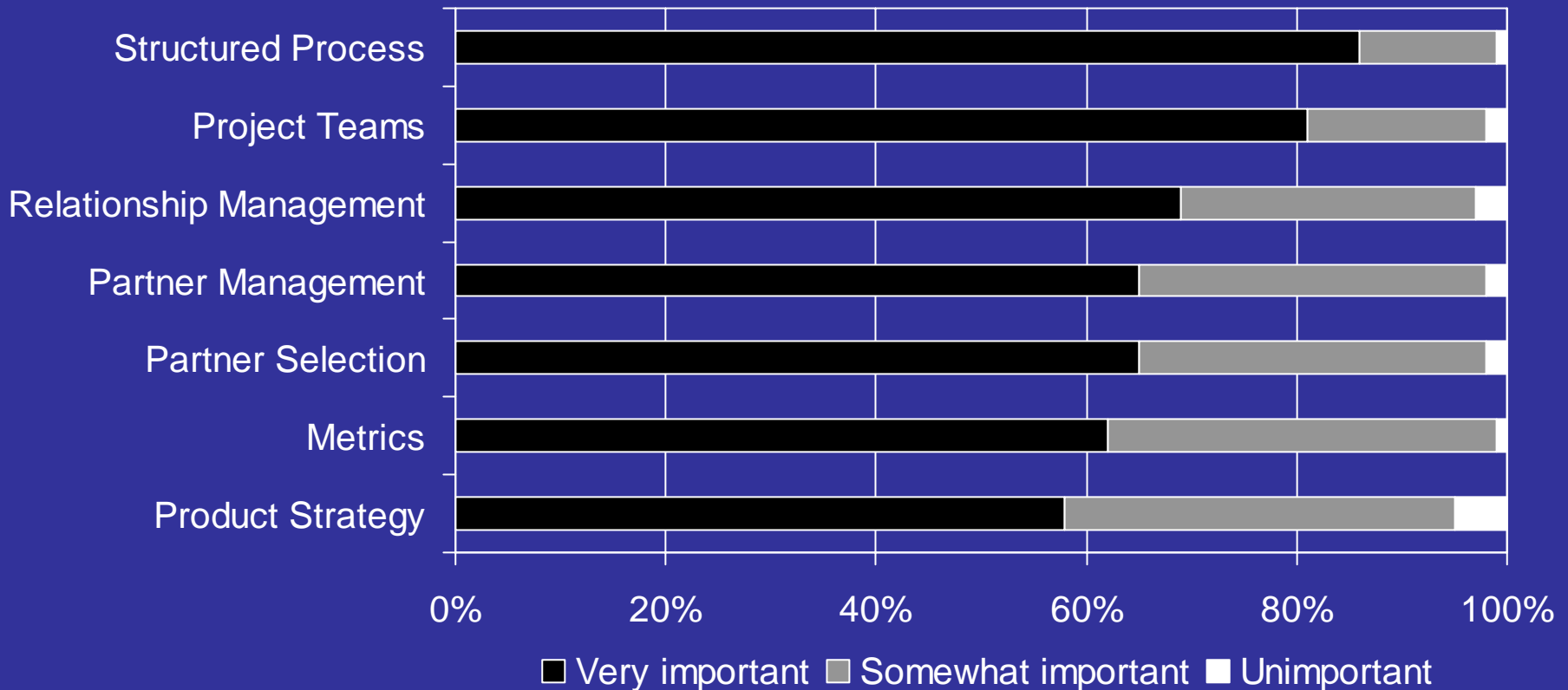
	Sept. 2002 & Prior	Oct. 2002 & Later
Does Not Describe Us	39%	25%
Somewhat Describes Us	46%	48%
Fully Describes Us	15%	27%

# The survey assesses the importance and deployment of seven specific practices

Practice	Definition
Structured Process	Product development follows an integrated concept-to-launch process that extends to business partners—deliverables have a common definition across organizations, and the process is easily tailored to specific project needs.
Project Teams	Key internal and external partners are represented on project teams, including customers and suppliers as appropriate. Roles are well-defined.
Relationship Management	There are designated executive sponsors from your company and from your partners to manage collaborative relationships; issues are resolved smoothly and effectively.
Partner Management	There is a comprehensive process for managing co-development partners; specific activities and interactions are codified with Joint Development Agreements (JDAs) based on standard, best-practice templates.
Partner Selection	The process and criteria for selecting and evaluating new partners are clearly defined.
Metrics	There are clearly defined metrics to measure and evaluate the performance of collaborative development relationships and projects.
Product Strategy	Product and technology roadmaps are jointly developed with key partners and are aligned across multiple organizations to provide total customer solutions.

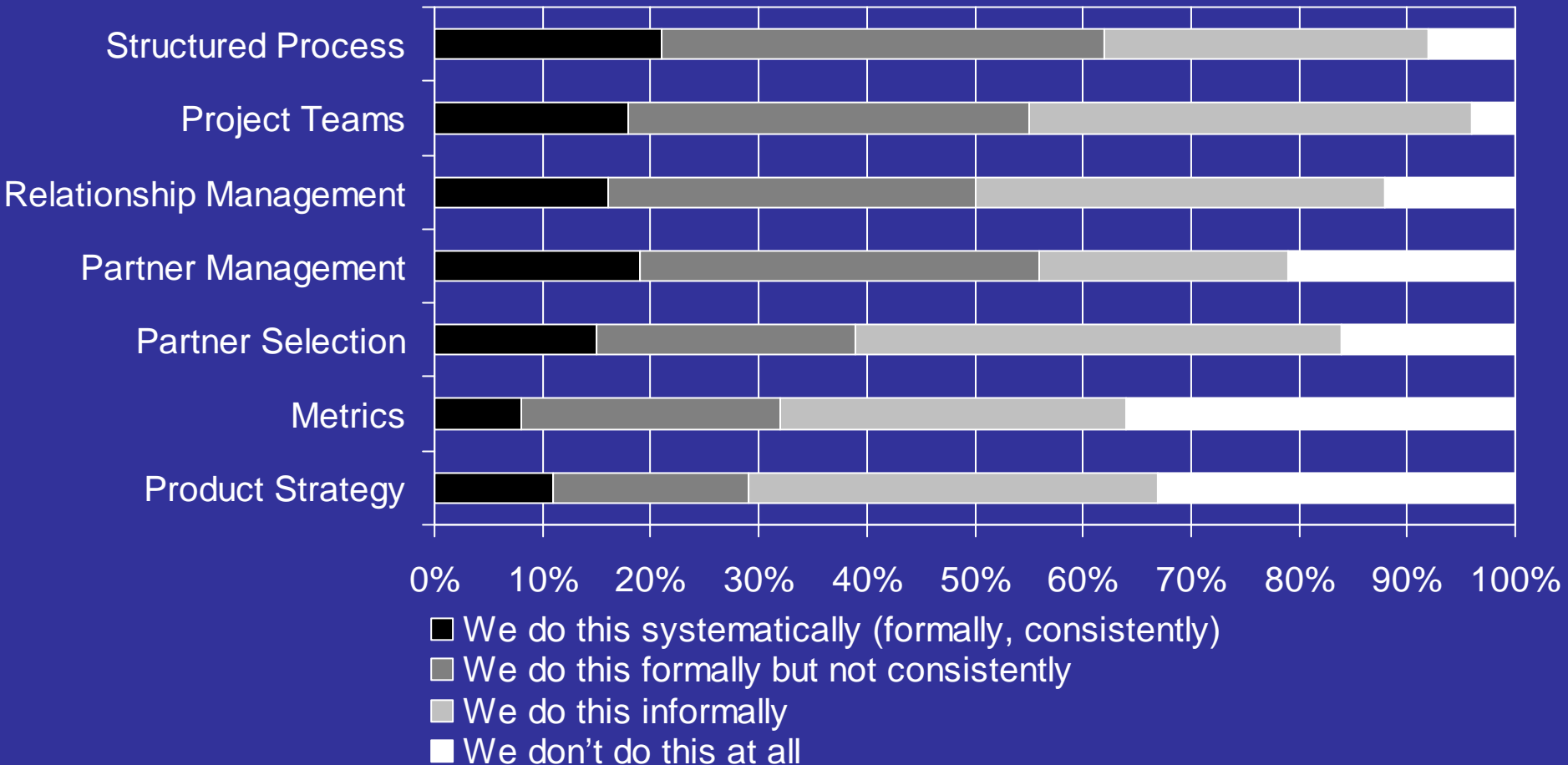
# All emerging co-development practices are judged as relatively important to success ...

## Importance of Co-Development Practices



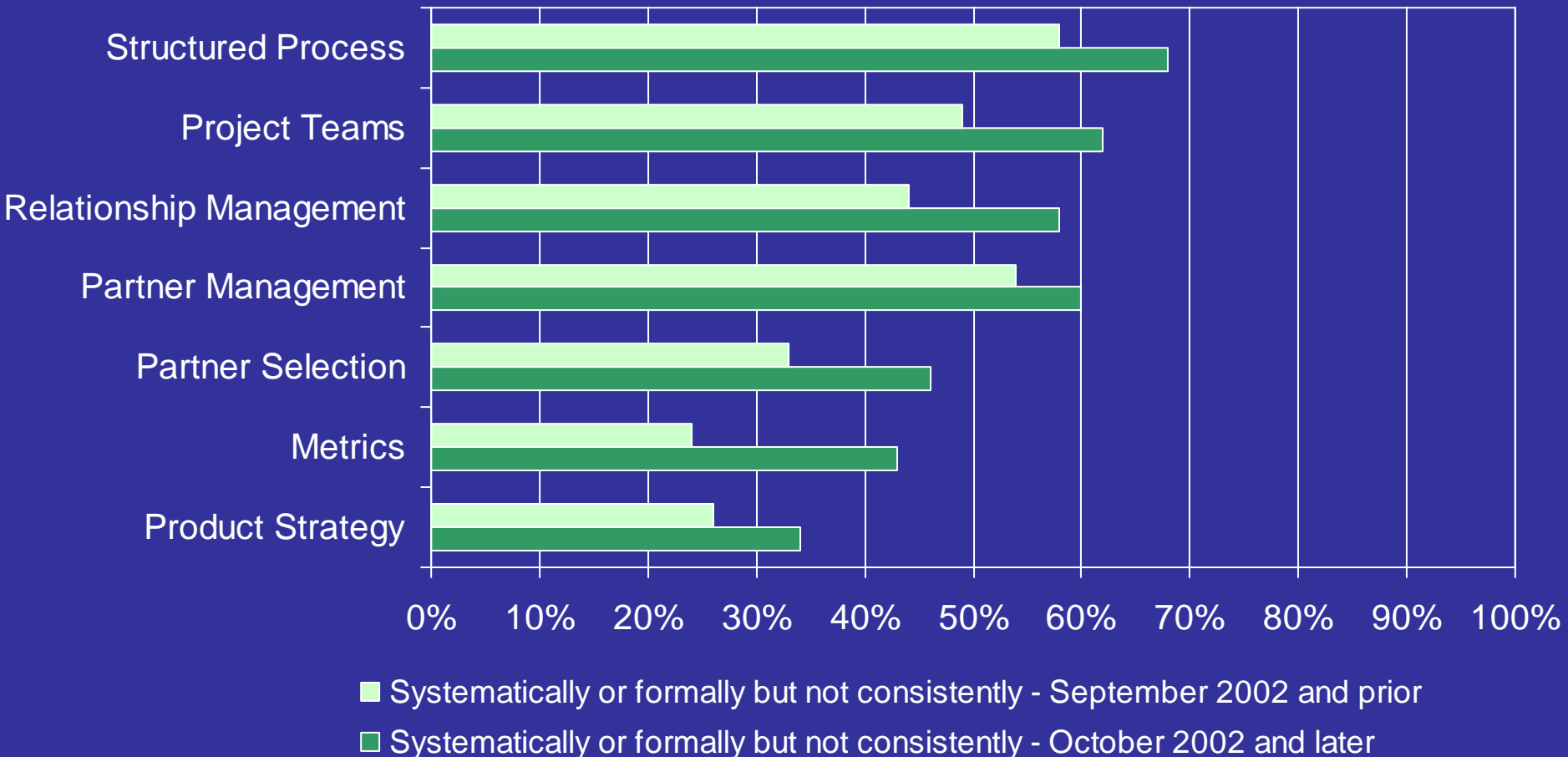
# ... but 20% or less of these practices are deployed systematically

## Deployment of Co-Development Practices



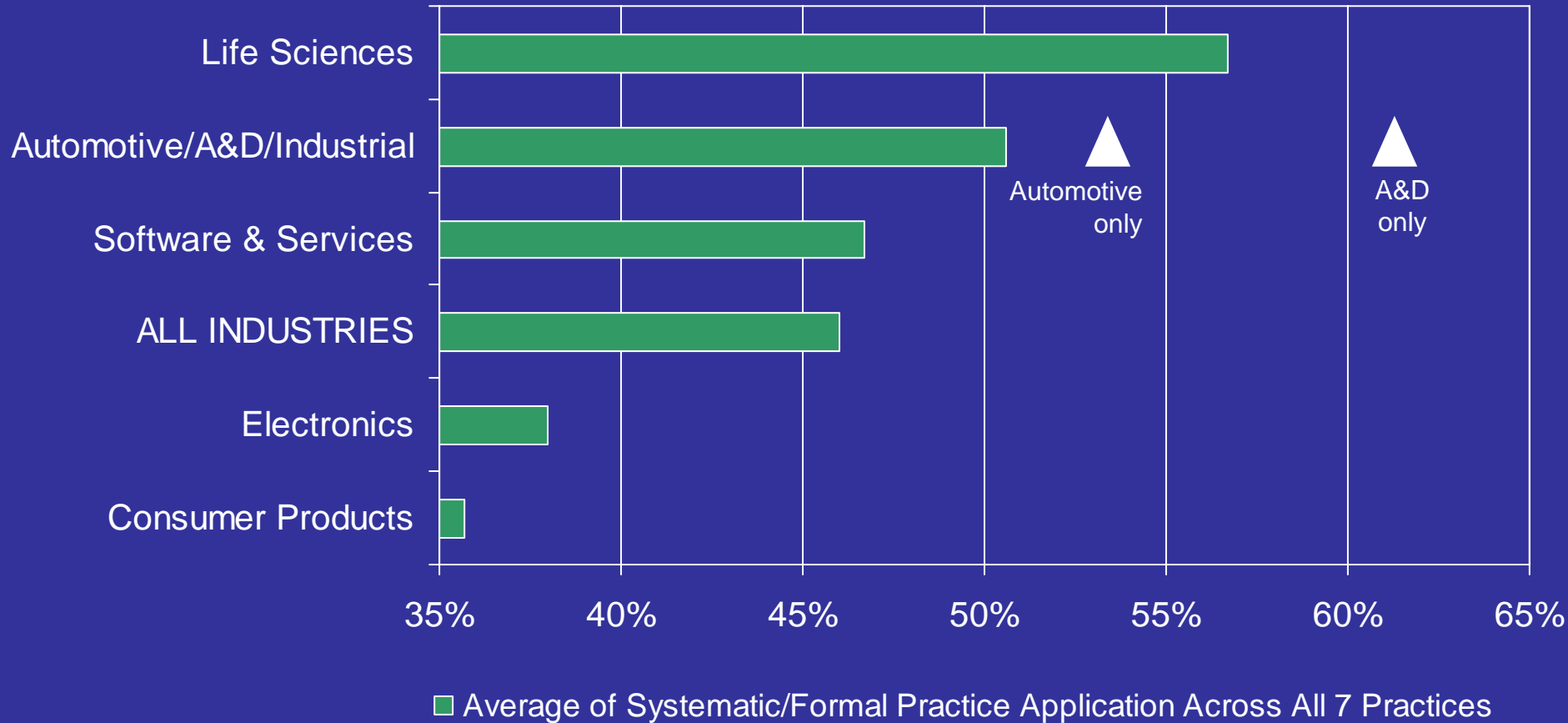
# Improvements in co-development satisfaction appear to be influenced by more disciplined application of key practices

## Deployment of Co-Development Practices: Longitudinal Comparison



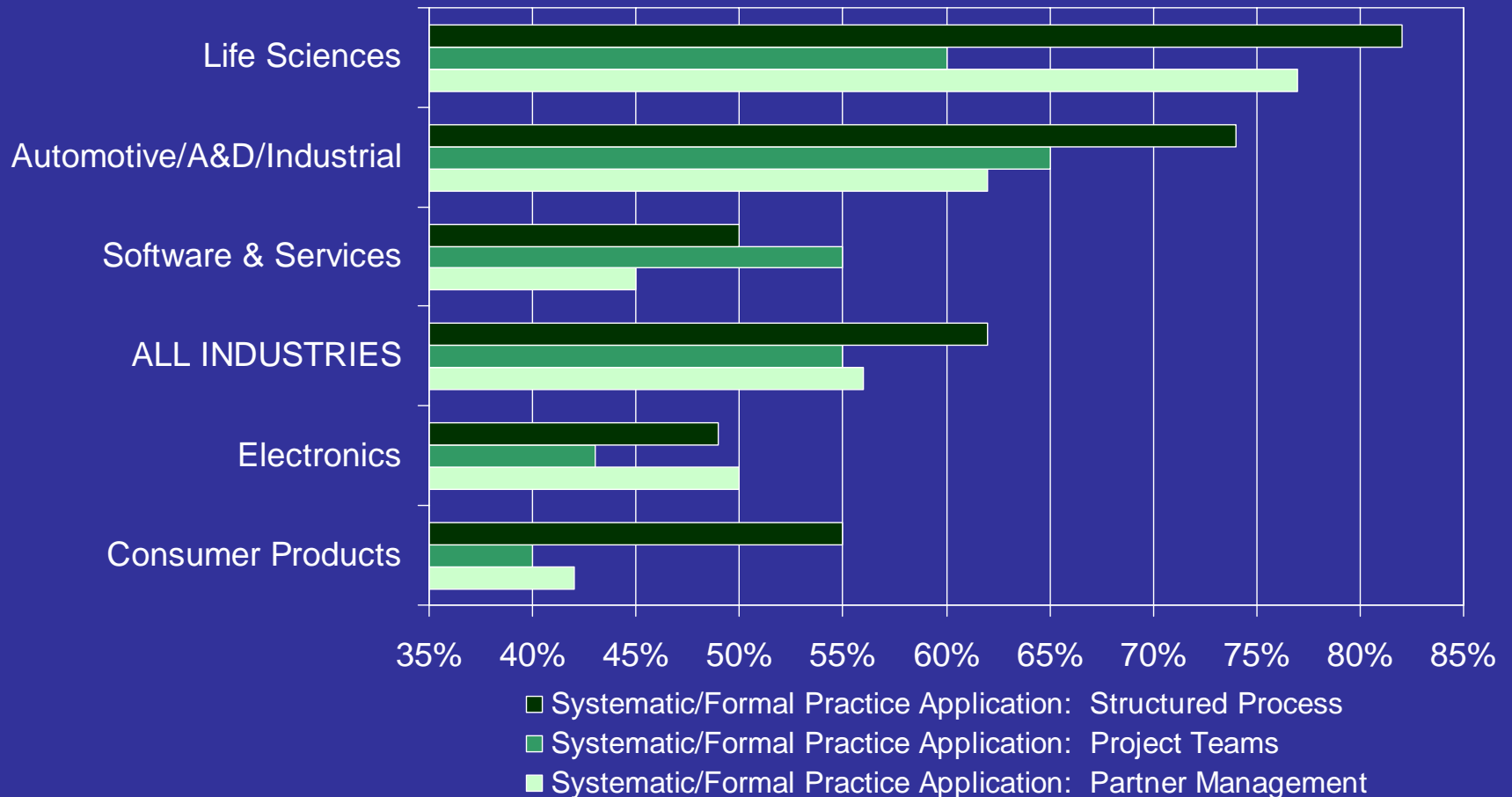
# The industry segments with more disciplined practices are also the ones citing superior time-to-market performance of co-development projects

## Deployment of Co-Development Practices: Industry Comparison



# Industry differences are most pronounced with respect to structured process, project team, and partner management practices

## Deployment of Co-Development Practices: Industry Comparison

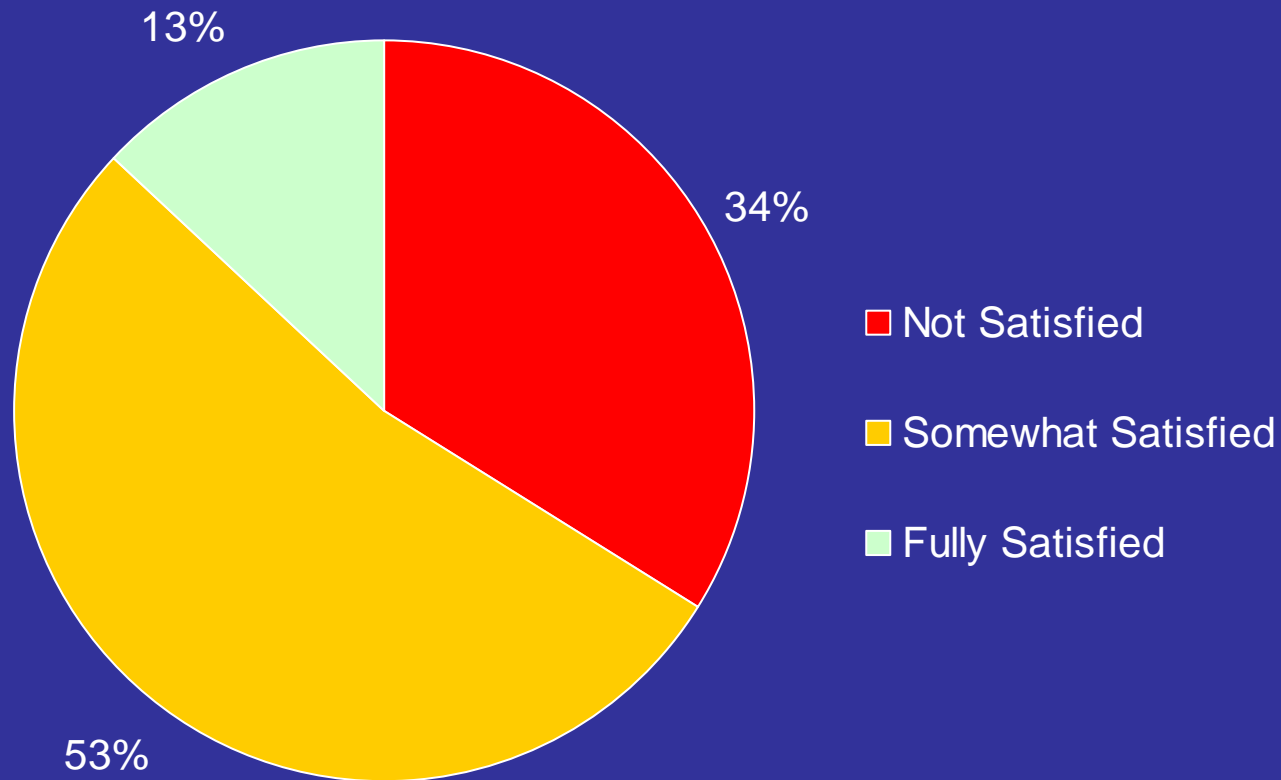




# Few companies are fully satisfied with current collaborative development tools

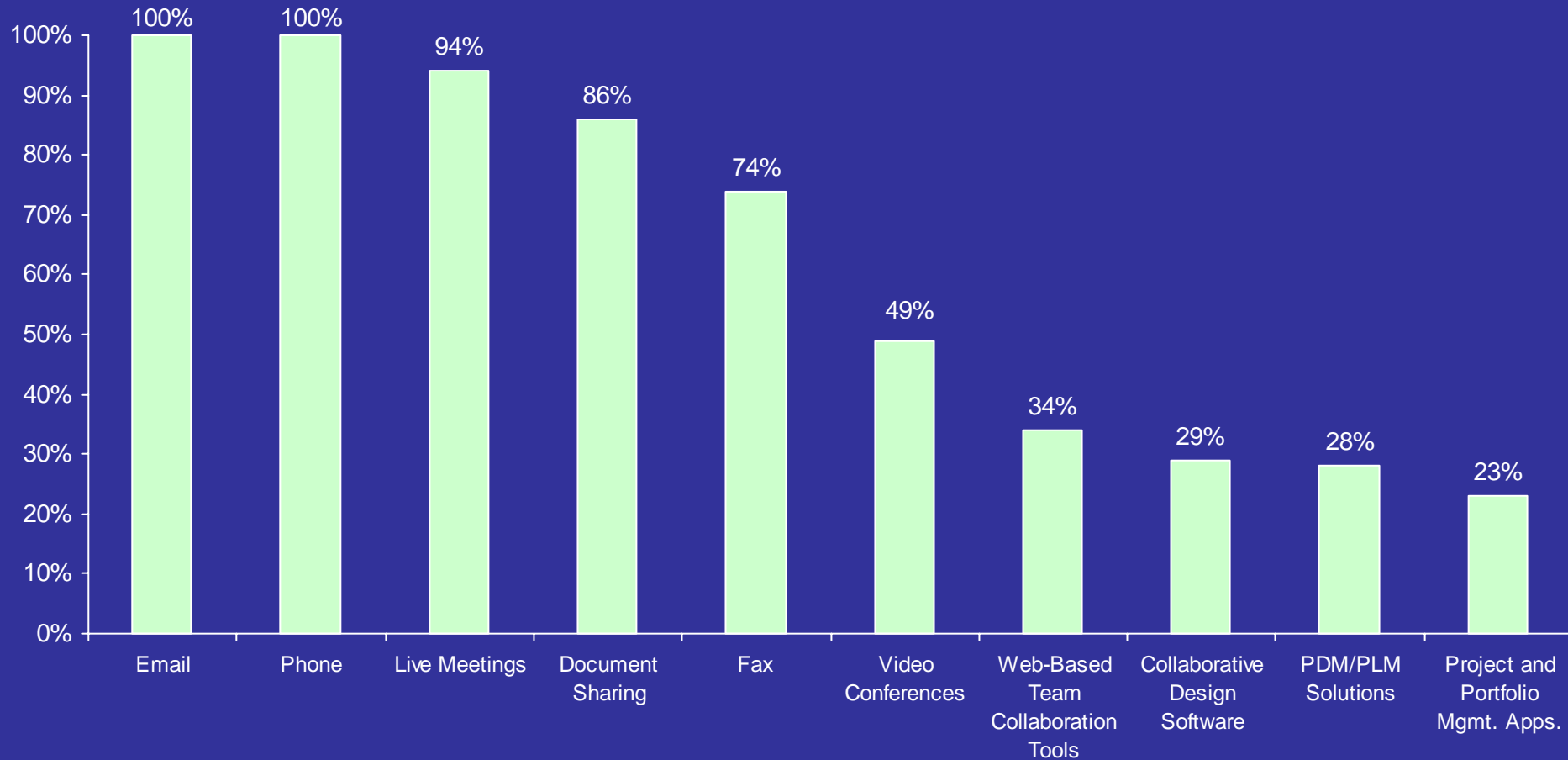
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Satisfaction with Current Tools



# The tools actually used are still relatively basic

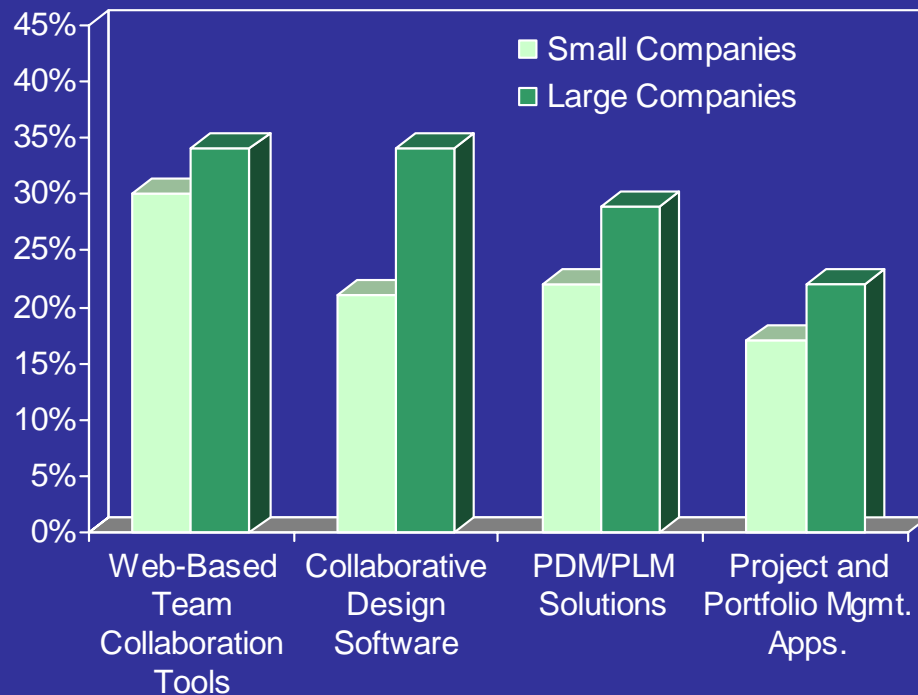
## Collaborative Development Tool Usage



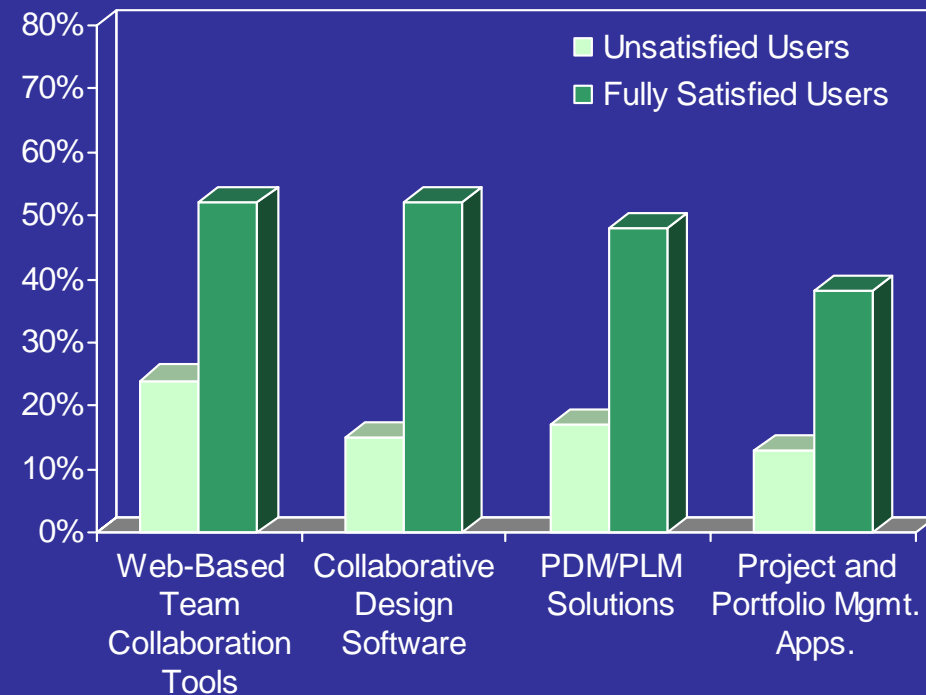
# Large companies and companies satisfied with their I.T. tend to use more advanced tools

## Advanced Collaborative Development Tool Usage

### Small vs. Large Companies



### Unsatisfied vs. Satisfied with Current Tools



# Key takeaways

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- ✓ **Co-development is on the upswing**
- ✓ **Companies are starting to pay more attention to the management practices required for success**
- ✓ **Nearly everyone sees substantial room for improvement**
- ✓ **There are no silver bullets—progress is needed on multiple fronts (strategy, processes, tools)**

# Survey participant list

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- ◆ 3M
- ◆ 3M Pharmaceuticals
- ◆ AAL/LB
- ◆ ABB
- ◆ ACSYS Technologies
- ◆ ADTRAN
- ◆ Advese
- ◆ Aeroconseil
- ◆ Airforce VRS
- ◆ ALARIS Medical Systems
- ◆ Allegro Microsystems
- ◆ Amalgamated Holdings
- ◆ AMDA Networks
- ◆ Appiant Technologies
- ◆ Appleton Papers
- ◆ Arrow Electronics
- ◆ Astrium
- ◆ Athersys
- ◆ Atoga Systems
- ◆ Avnet
- ◆ Ballard Power Systems
- ◆ Battelle
- ◆ BellSouth
- ◆ Beta Sphere
- ◆ Blue Pumpkin Software
- ◆ Boeing
- ◆ Boston Scientific Target
- ◆ BRANZ
- ◆ Brewer Science
- ◆ BRT Laboratories
- ◆ Bush Brothers and Company
- ◆ Cessna
- ◆ CIENA
- ◆ Clorox
- ◆ Coinstar
- ◆ Collins and Aikman
- ◆ Cooper Bussmann
- ◆ CTI
- ◆ CYRO Industries
- ◆ Dacor
- ◆ DaimlerChrysler
- ◆ DeForest Associates
- ◆ Delco Remy America
- ◆ Demantra
- ◆ DMC Stratex Networks
- ◆ Dow Corning
- ◆ Draeger
- ◆ D.S.D. Data Systems Designers
- ◆ Eastman Kodak
- ◆ EchoStar Technologies
- ◆ Eli Lilly
- ◆ EMBRAER
- ◆ EMC
- ◆ Exactech
- ◆ EXFO Electro-Optical Engineering
- ◆ Exostar
- ◆ First International Digital
- ◆ Flowserve
- ◆ Harley-Davidson
- ◆ Honeywell Consumer Products
- ◆ Gates Rubber
- ◆ General Motors
- ◆ Glenayre
- ◆ GMP Companies
- ◆ Harris
- ◆ Harris-MCD
- ◆ Hewlett-Packard
- ◆ Honeywell
- ◆ Honeywell Control Products
- ◆ In-Sink-Erator
- ◆ Infosys
- ◆ Instron
- ◆ Integrated Cargo Management Systems
- ◆ Intel
- ◆ International Truck and Engine
- ◆ Intersil
- ◆ Israel Aircraft Industry
- ◆ Ivex Packaging
- ◆ Jet Support Centre
- ◆ JetLab
- ◆ Johnson & Johnson LifeScan

# Survey participant list (continued)

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- ◆ Kimberly-Clark
- ◆ Kodak Polychrome Graphics
- ◆ Kraft Foods
- ◆ Kulicke & Soffa
- ◆ Latitude Communications
- ◆ Lucent Technologies
- ◆ Madge Networks
- ◆ Mallinckrodt / Tyco Healthcare
- ◆ McDATA
- ◆ MED-EL GmbH
- ◆ Menasha Packaging
- ◆ Metaldyne
- ◆ Microsoft
- ◆ Mindspeed Technologies
- ◆ Motorola
- ◆ MSX International
- ◆ Multisorb Technologies
- ◆ National Semiconductor
- ◆ NeoRx
- ◆ New Product Innovations
- ◆ Nortel Networks
- ◆ Nvidia
- ◆ Officine Aeronavali Venezia
- ◆ OMNOVA
- ◆ Parametric Technologies
- ◆ Peak XV Networks
- ◆ Power Measurements
- ◆ Practical Automation
- ◆ Proctor & Gamble
- ◆ Progress Energy
- ◆ Public Mind
- ◆ Quest Diagnostics
- ◆ R/D Tech
- ◆ RCS Aviation
- ◆ RD Precision
- ◆ ReShape
- ◆ Roche Diagnostics - Diabetes Care
- ◆ S.C. Johnson
- ◆ Schneider Automation
- ◆ SCT/Campus Pipeline
- ◆ SEZ
- ◆ Shipley
- ◆ Shure
- ◆ SMTC Manufacturing
- ◆ Solectron
- ◆ Solvay Pharmaceuticals
- ◆ Sonic Innovations
- ◆ SOTRET
- ◆ Spirent Communications
- ◆ Springs Window Fashions
- ◆ Sprint
- ◆ SS8 Networks
- ◆ Star Trac
- ◆ Stryker
- ◆ Stuart Energy
- ◆ Sub-Zero Freezer
- ◆ Swagelok
- ◆ Swarovski North America
- ◆ Tecnomatix
- ◆ Tektronix
- ◆ Televoice
- ◆ Texas Instruments
- ◆ Texas Instruments European HPA
- ◆ Thermo King
- ◆ TIBCO Software
- ◆ Topmode Systems
- ◆ Trus Joist
- ◆ Ubiquity Technologies
- ◆ utstarcom
- ◆ ViaSat
- ◆ Virtua Group
- ◆ Volvo
- ◆ VTT
- ◆ Waer Systems
- ◆ Waterloo Industries
- ◆ Westinghouse Electric
- ◆ Whirlpool
- ◆ Worldwide Technical Services
- ◆ WR Grace
- ◆ Xerox