



Global
Institute
for IT
Management

Digital Transformation: How Strategic Advances in IT are Changing Every Business

2022



**Managing
Information
Technology
Resources**
3rd Edition

HUMAN RESOURCES
VALUE METRICS
TECHNOLOGY SCOPE
GOVERNANCE
PARTNERSHIP
COORDINATION

Jerry Luftman Ph.D.

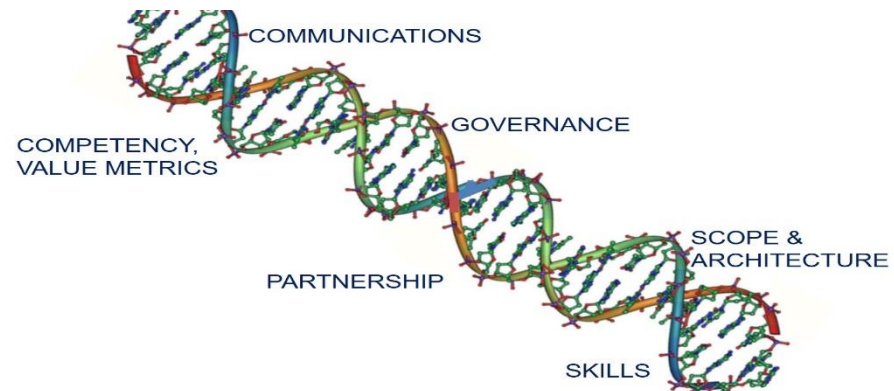
**Competing
in the
Information
Age**
SECOND
EDITION
Align in the Sand
JERRY N. LUFTMAN

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LinkedIn Group: Future Role of IT



<https://www.globaliim.com/business-it-alignment>

<https://www.globaliim.com/business-it-alignment>







NOVEMBER 2007





5 LARGEST U.S. COMPANIES

(REVENUE \$ MILLIONS)

2000

2010

2020

2021

1



\$180



\$405



\$524



\$559

1

2



\$165

ExxonMobil \$383

amazon \$282

amazon \$386 2

3

ExxonMobil \$228



\$198

ExxonMobil \$265



\$274

3

4



\$162



\$150



\$260



\$269

4

5



\$130



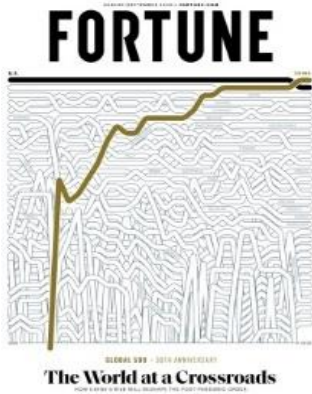
\$134

CVS \$257

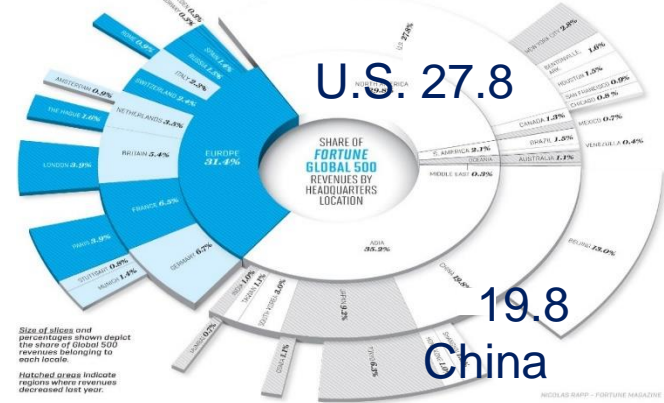
United Healthcare \$257 5

ExxonMobil \$182 10





Global Top 10 Revenues (\$B)



2021

2020

2010

Walmart	559	1	Walmart		1
State Grid _(China Elect.)	387	2	Sinopec Group _(China Petro)		2
Amazon	386	3	State Grid _(China Elect.)		3
China National Petro	384	4	China National Petro		4
Sinopec Group _(China Petro)	284	5	Royal Dutch Shell		5
Apple	275	6	Saudi Aramco		6
CVS	267	7	Volkswagen		7
United Health	258	8	BP		8
Toyota Motor	257	9	Amazon		9
Volkswagen	254	10	Toyota Motor		10

Fortune 500 CEO's

USED A.I. TO
IMPROVE
EFFICIENCY/
REDUCE COST

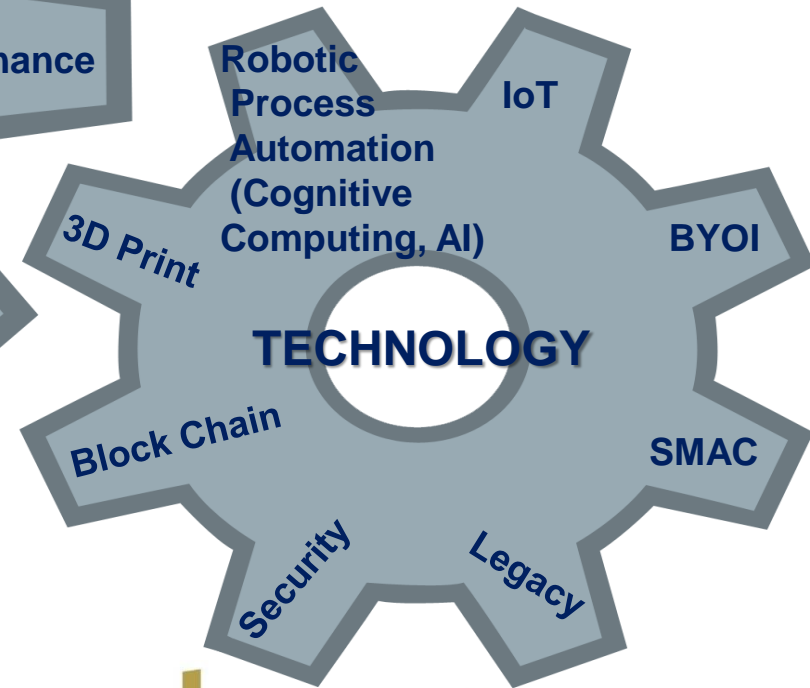
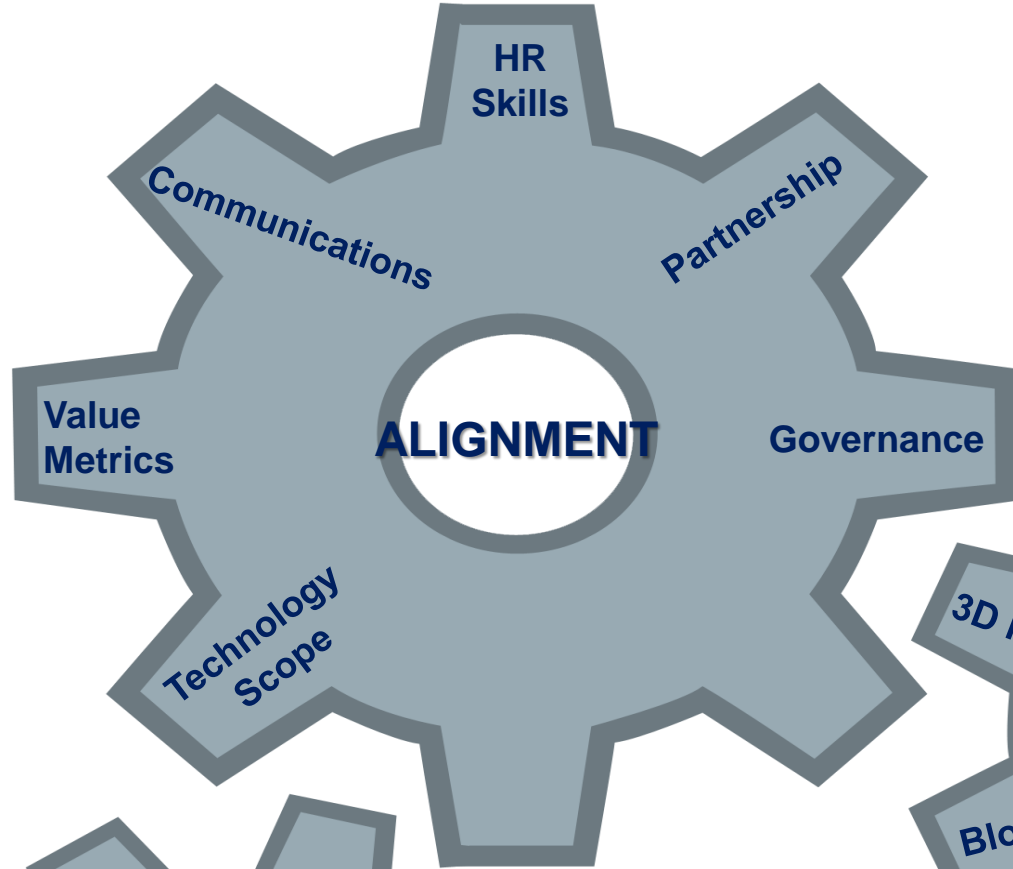
60%



USED A.I. TO
CREATE NEW
PRODUCTS/
SERVICES

22%



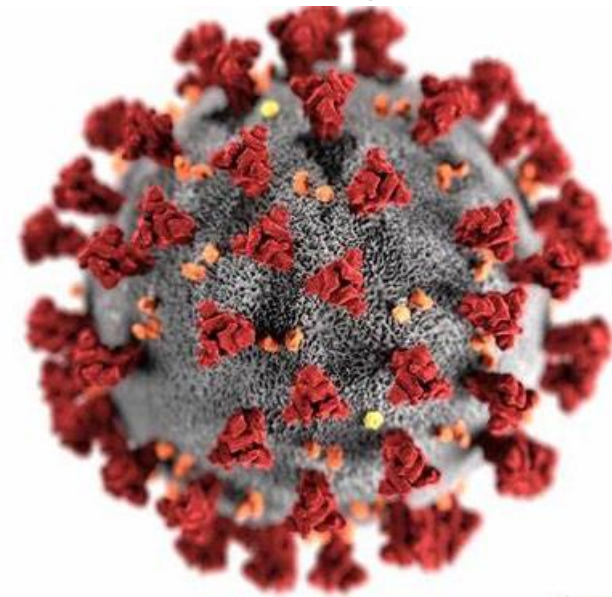




5 GLOBAL IT HEADLINES



1. Intensifying Business Attention To digitalization:
 - Cost Reduction, Control, Collaborating, Innovating
 - Cloud, Security, & Data, & **MOBILE**
2. Top 3 management concerns unchanged over the last 3 years; Security, IT-Business Alignment, Data/Analytics
3. Budgets, Hiring, Salaries Increasing, but at a much lower rate
4. % of Budget 2014 - 2021 trend
 - > Cloud (10% - 20%)
 - < Employees (40% - 34%)
5. Talent challenges and shortages, coupled with the need to invest in technology infrastructure and capabilities to effectively engage remote employees, manage dispersed workforces and serve customers on their terms.



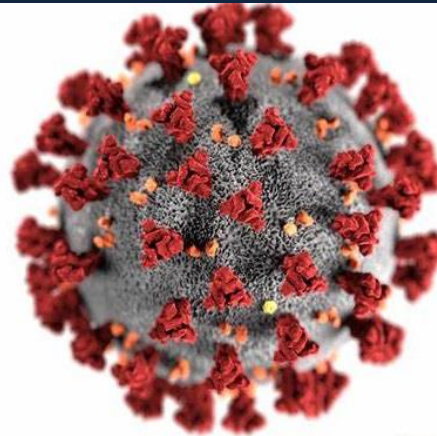


BIGGEST HEADLINE

IT IS RESHAPING GLOBAL MARKETS

WHILE RESHAPING ITSELF

**AS IT BECOMES THE BUSINESS
IN THE MIDST OF A DIGITAL
TRANSFORMATION!**



State of IT Sourcing & Talent Management



Pervasive & persistent complaints from IT leaders:

- their people do not have the right competencies
- they have job openings but cannot find people with the right skills



THE CEO OUTLOOK

OPEN ENDED QUESTIONS

- Name the biggest challenge they face, the CEOs mentioned “talent” more than anything else.



- Cybersecurity was also top of mind, with 86% saying it is “highly” or “moderately” relevant to their agenda. Cryptocurrency ranked at the bottom, with only 16% ranking it “highly” or “moderately” relevant.

THE CEO OUTLOOK

THE TOP RISKS FOR 2022

1. Pandemic-related government policies and regulation impact business performance
2. Succession challenges, ability to attract and retain top talent
3. Pandemic-related market conditions reduce customer demand
4. Adoption of digital technologies requires significant efforts to upskill/reskill existing employees
5. Economic conditions, including inflationary pressures, constrain growth opportunities

THE CEO OUTLOOK

THE TOP RISKS THROUGH 2031

1. Adoption of digital technologies requires new skills or significant efforts to upskill/reskill existing employees
2. Succession challenges, ability to attract and retain top talent
3. Rapid speed of disruptive innovation outpaces our ability to compete
4. Substitute products or services arise that affect our business model
5. Economic conditions, including inflationary pressures, constrain growth

WORK IS CHANGING

65%

of children entering school today will end up working in completely new jobs that don't yet exist.

85.2 M

Shortfall of skilled workers by 2030; most effected: financial services, manufacturing, & technology

6/10

Occupations have more than **30%** of activities that are automatable.

TOP 10 IT MANAGEMENT CONCERNS/ISSUES TO YOUR ORGANIZATION OVER THE PAST 10 YEARS

	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Security/Privacy	1	1	1	1	2	2	6	9	8	7
Alignment of IT & Business	2	2	2	2	1	1	1	1	2	1
Data/Analytics Management	3	3	3	6						
Digital Transformation	4	4	7	10						
Compliance/Regulation	5	5	6	3	15					
IT Cost Reduction/Control	6	8	9	5	6	9	16	5	5	10
Business Continuity	7	16	12	18	11	15				
Bus. Cost Reduction/Control	8	10	10	4	5	5	4	3	1	4
Cloud/Cloud Computing	9	6	13	14						
IT/Business Agility	10	7	8	9	5	9	3	2	3	2

Innovative Use of IT was 9 last year

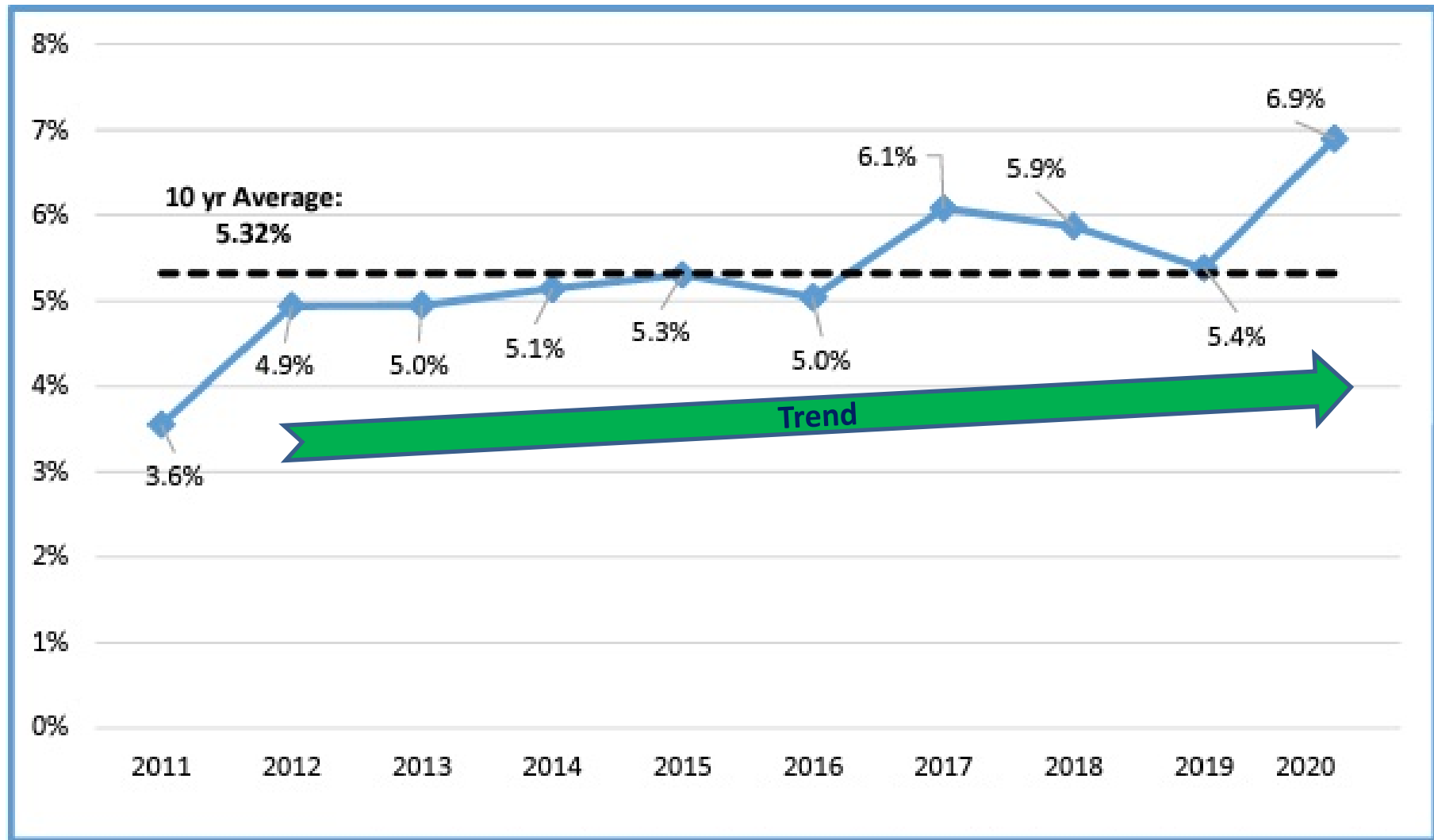
Top 10 IT Investments Over the Last 10 Years

	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Cloud Computing (SaaS, PaaS, IaaS)	1	2	3	4	4	4	4	2	2	3
Analytics/Bi/Data Mining/Big Data	2	1	1	2	1	1	1	1	1	1
Security/Cybersecurity	3	3	2	1	3	7	8	16	15	28
Application/Software Development/Maint	4	4	4	3	2	3	2	5	4	
Customer Relationship Management (CRM)	5	5	6	6	5	5	6	3	5	5
Enterprise Resource Planning (ERP)	6	6	5	5	6	2	3	4	3	3
Legacy Apps: Replacing/Replatforming	7	7	9	9	10	9	15	16		
Collaboration Tools	8	16	18	20	15	13	21	12		
Data Center/Infrastructure	9	8	7	7	7	6	3			
Network/Telecommunications	10	11	8	8	8	8	9	8	12	

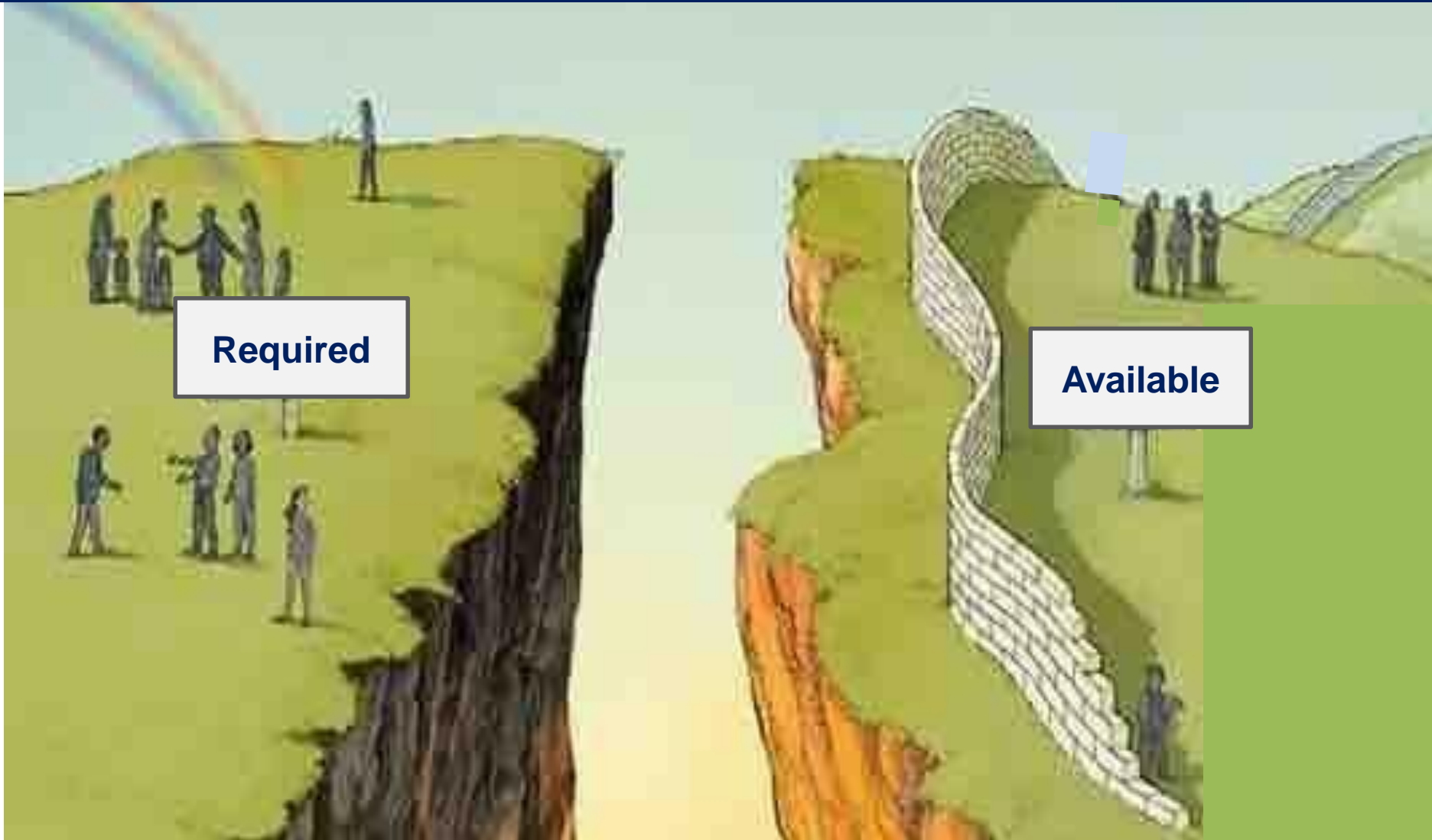


Legacy Apps (Maintain/Update/Consolidate) & Integration of Apps, Data, were 9 & 10

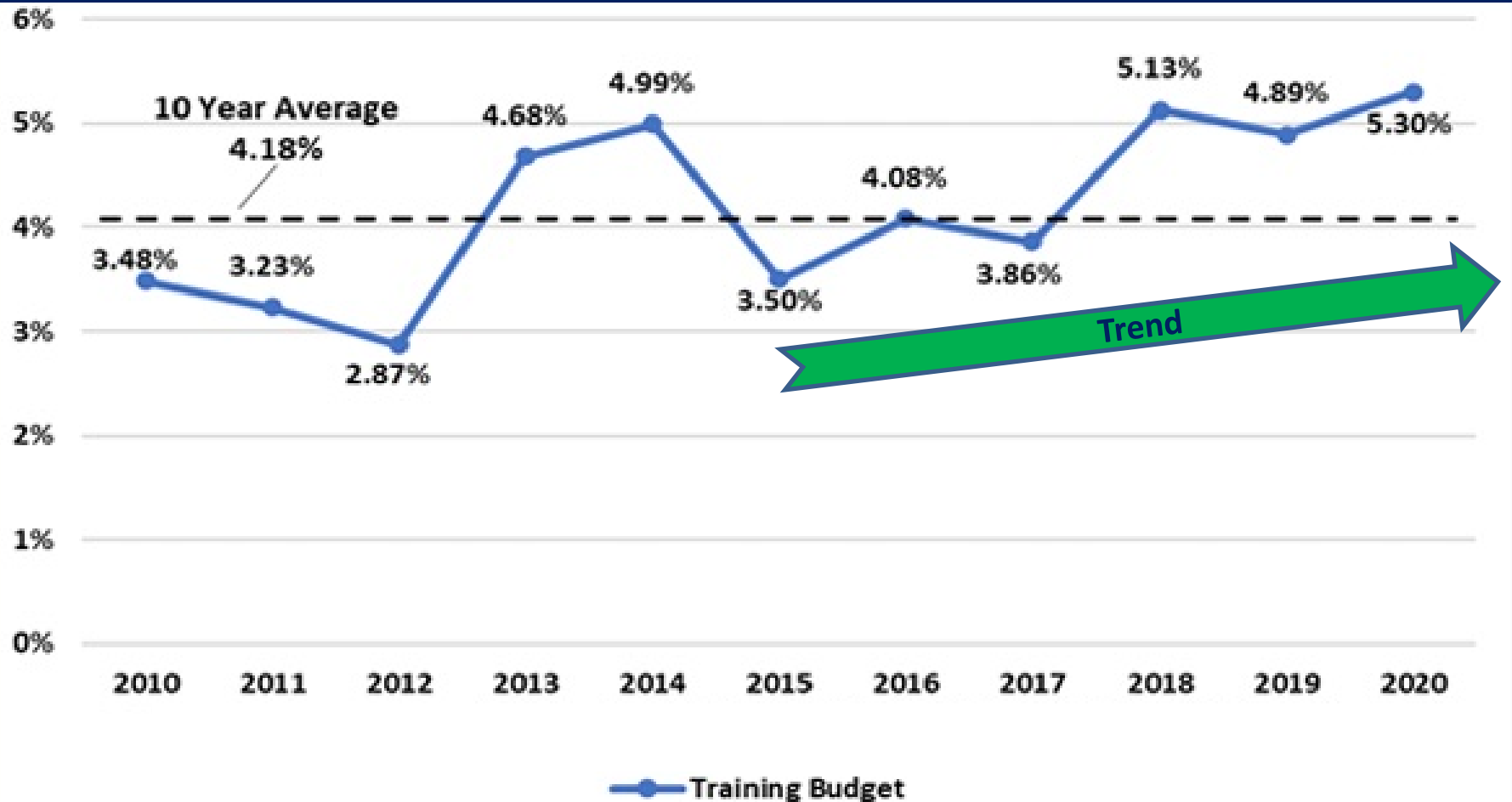
IT BUDGET AS PERCENT OF REVENUE



SKILLS GAP



% IT BUDGET ALLOCATION FOR EDUCATION/TRAINING



HYBRID SKILLS FOR THE 21st CENTURY

Broad General Skills

BUSINESS/MANAGEMENT

- Leadership
- Strategic Thinking
- Project Management
- Finance
- Industry



INTERPERSONAL

- Communications
- Teams/Relationships
- Adaptability
- Morals/Ethics

Deep Technical Skills

- SMAC
- Security
- Data/IoT
- Programming
- SW Engineering
- IT Architecture
- -
- -

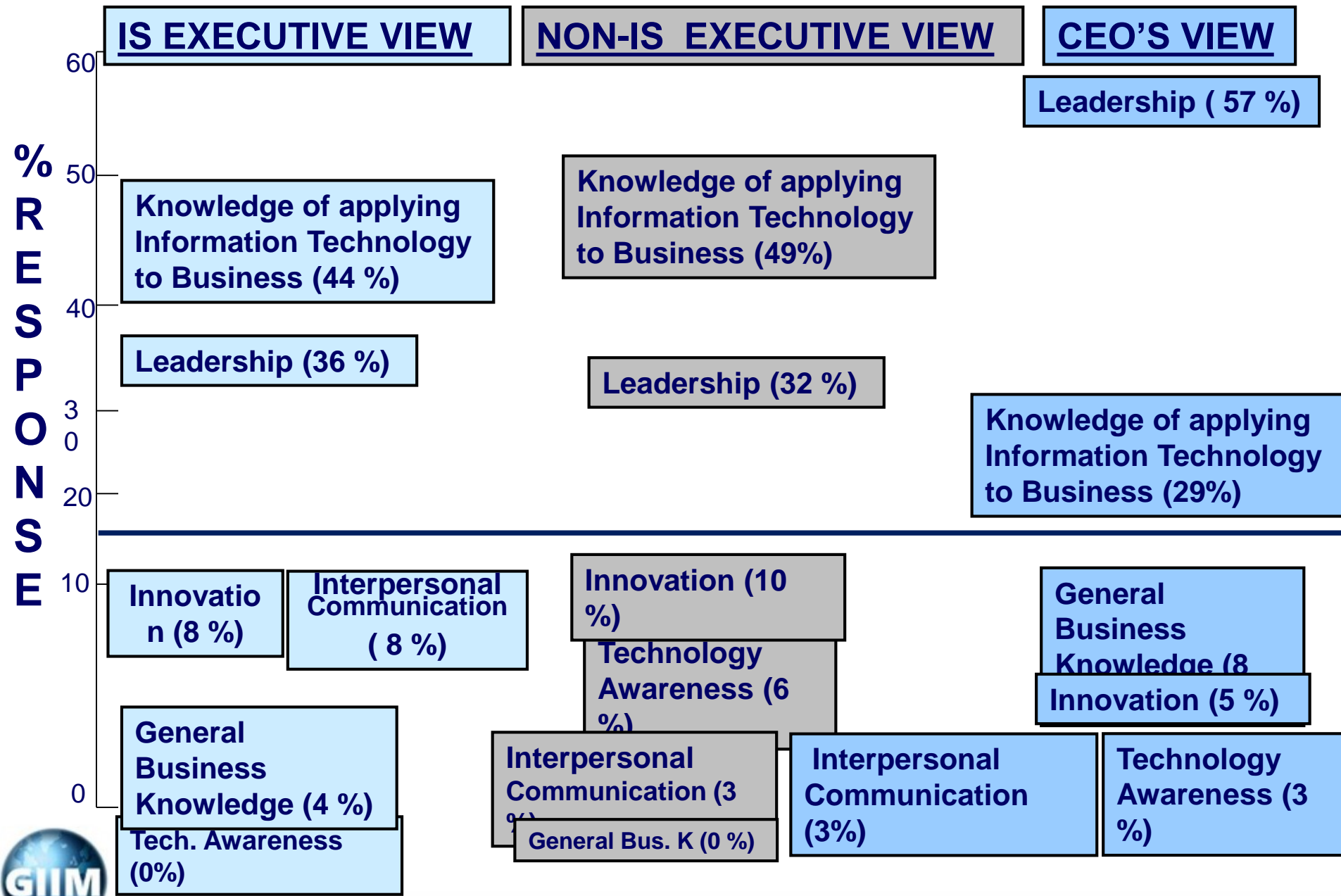
MOST IMPORTANT TECHNICAL SKILLS

Technical Skill or Capability	Percentage Selecting	
	Most Difficult to Find (% Selecting) 2018 Rank	Most Important to Organization (% Selecting) 2018 Rank
Security / Cybersecurity	1 (46.6%) 1	1 (45.8%) 1
Analytics / Business Intelligence / Big Data / Data Scientist	2 (41.4%) 2	2 (37.4%) 2
Architecture / Architect --- Application / Solution	3 (22.8%) 5	4 (23.8%) 5
Analyst --- Business	4 (21.5%) 3	3 (34.8%) 3
Functional Area Knowledge	5 (20.6%) 4	9 (16.7%) 4
Cloud	6 (19.4%) 6	6 (18.8%) 8
Architecture / Architect --- Data / Information	7 (18.9%) 8	7 (18.1%) 10
Software Development / Programming Languages ^a	8 (17.3%) a	5 (20.7%) a
Analyst --- Technical	9 (17.2%) 13	11 (16.2%) 12
Architecture / Architect --- Enterprise	10 (16.7%) 9	12 (13.4%) 13
IT Project Manager	12 (12.1%) 12	8 (17.3%) 5
ERP (Enterprise resource planning)	13 (11.7%) 7	10 (16.3%) 5
^a New item consolidating Programmer / Development – Mobile, Programmer / Development – Web, and Programmer / Development – Other		
n = most senior IT leader in 618 unique organizations		

MOST IMPORTANT IT SOFT SKILLS

Soft Skill or Personal Attribute	Percentage Selecting	
	Most Difficult to Find (% Selecting) 2018 Rank	Most Important to Organization (% Selecting) 2018 Rank
Critical Thinking	1 (46.8%) 1	1 (42.3%) 1
Strategic Thinking / Planning	2 (41.1%) 2	2 (33.9%) 2
Leadership / Providing Leadership	3 (33.5%) 3	3 (32.3%) 4
Systems / Holistic Thinking	4 (29.3%) 5	6 (18.3%) 10
Emotional Intelligence / Empathy	5 (27.8%) 7	6 (16.4%) 12
Business Knowledge --- Industry Specific	6 (25.9%) 4	5 (27.3%) 5
Innovation / Innovative	7 (23.1%) 6	8 (21.6%) 8
Change Management (Organizational)	8 (20.9%) 7	8 (22.0%) 7
Problem Solving	9 (18.1%) 9	10 (23.5%) 6
Relationship Management	10 (16.5%) 14	15 (13.4%) 14
Collaboration with Others / Teamwork	11 (15.9%) 13	4 (32.4%) 3

WHAT IS THE NUMBER ONE QUALIFICATION FOR A CIO?



THE MOST IMPORTANT IT MANAGEMENT SKILL FOR THE NON-IT EXECUTIVE



1. **CIO/CTO (& other IT executives) roles**
2. **Compliance/Regulations**
3. **Emerging Technologies**
4. **Governance (including value analytics)**
5. **HR, sourcing, & organization structure**
6. **Innovation**
7. **Project Management**
8. **Sponsor & champion(s) roles**
9. **Trends in leveraging IT**
10. **Vendor Management**

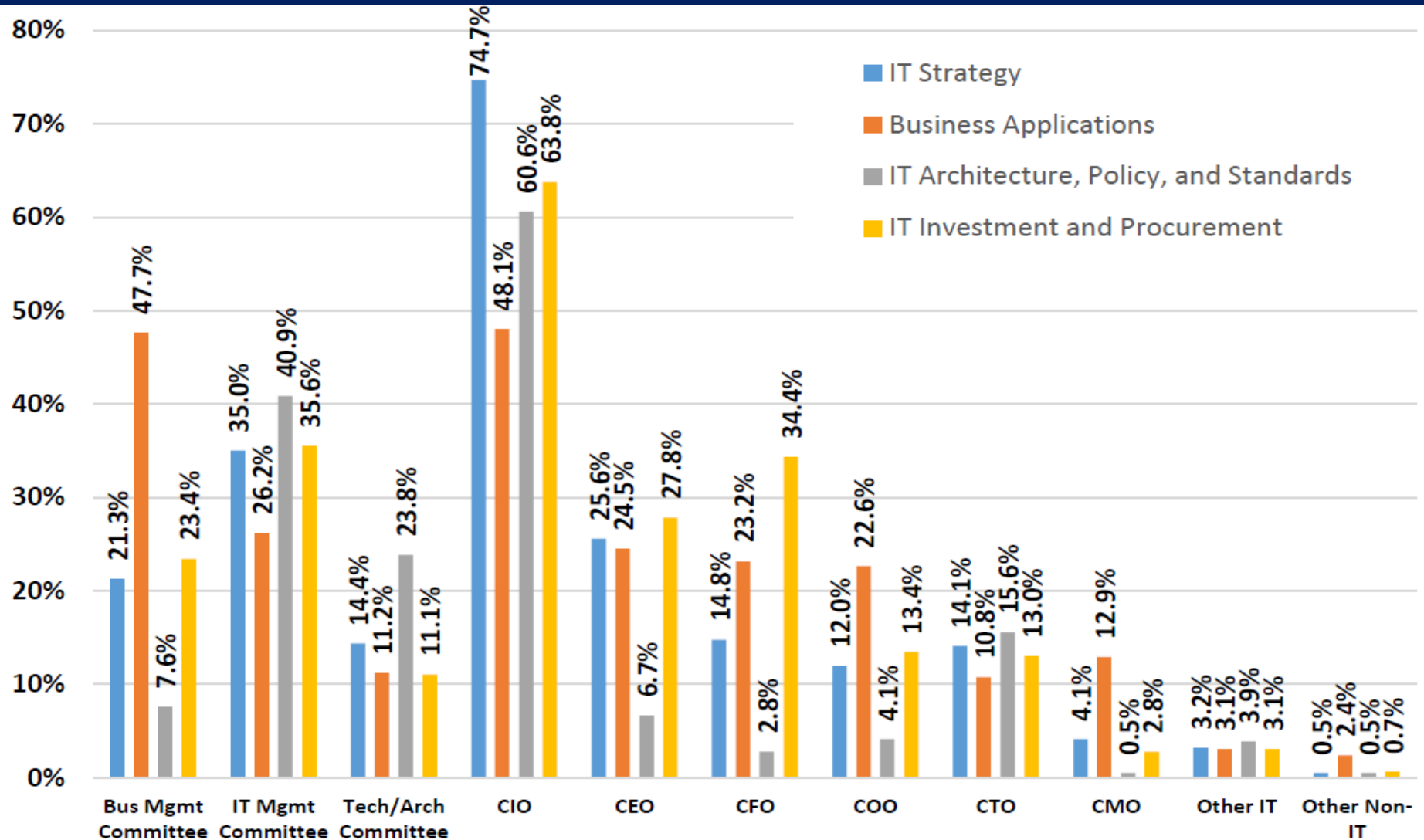


The most important IT management skill for the **non-IT** executive



- 1. Governance (including value analytics) 31%**
- 2. Trends in leveraging IT 28%**
- 3. CIO/CTO (& other IT executives) roles 20%**
- 4. Sponsor & champion(s) roles 16%**
- 5. HR, sourcing, & organization structure 5%**

WHO MAKES IT DECISIONS?



GIIMs HELPING HAND BRIDGING ESSENTIAL SKILLS





We
make
digital
leaders

The Global Institute for IT Management



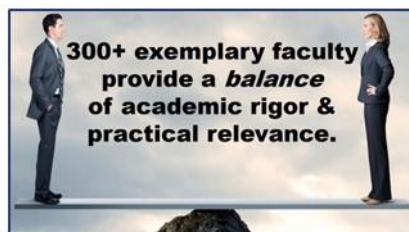
GIIM collaborates with its affiliates in delivering full degrees, certifications, postgraduate diplomas, and customized just-in-time workshops & seminars

35 4-course digital management certificates (over 150 courses) for IT and non-IT professionals

- **Programs focus on the digital transformation of IT & business**
- **Faculty & adherence to accreditation standards authenticates our brand**



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Management



Certificates are comprised of 4 courses.

Courses are 30-40 hours, can be delivered face-to-face & online, meet Master's Degree accreditation standards, & are scalable based on the target audience.



For additional information:

- E-mail: info@globaliim.com
- Web: <http://www.globaliim.com/>



**Programs for IT & non-IT
executives from entry level to C level**

CIO Certification

1. Leadership in Business-IT Management

Executive Certificates

- 2-12. Digital Industry (e.g., Finance, Pharmaceutical, Healthcare, Manufacturing/Engineering, Telecom, Government, Petroleum, Hospitality, Retail, Transportation, Insurance, Marketing)
13. IT for the Non-IT Executive
14. Managing IT Vendors & Outsourcing (also for non-IT)
15. Business-IT Management Consulting
16. Business Process Management
17. Supply Chain Management
18. Managing IT Legal Issues
19. IT Human Resource Considerations

Technical Leadership Certificates

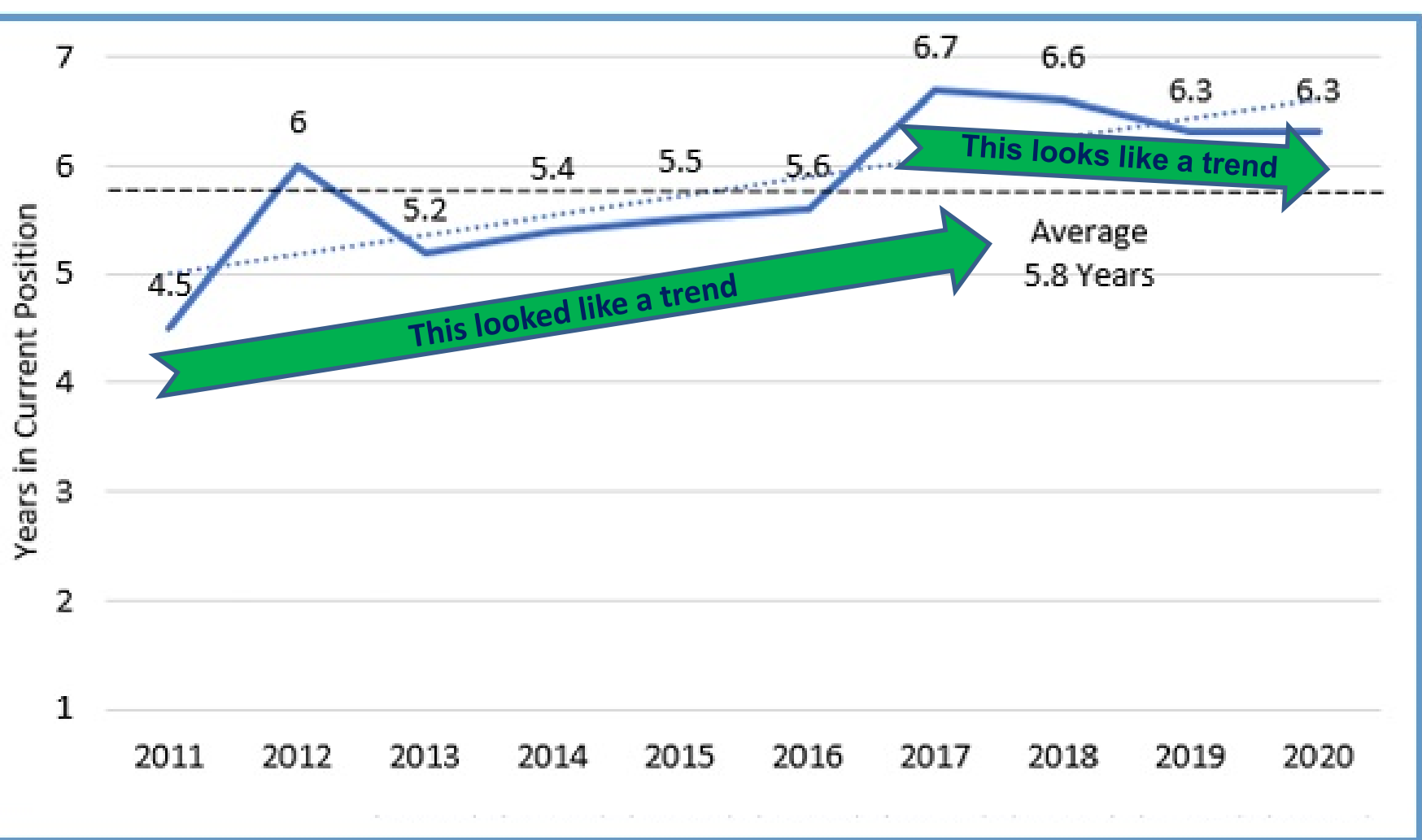
20. Deploying Data Technologies
21. Managing Data as an Asset
22. Managing Cloud Computing
23. IT Infrastructure Integration
24. IT Security Management
25. Social Business/Networking, Mobile Computing
26. Project Management
27. Software Engineering
28. Blockchain
29. Technology Enabled Learning
- 30-31. Workforce Development (Current & Emerging Tech)

Analytics, AI, Blockchain,
Robotics, Cognitive
Computing, IoT, Big Data

General Management Certificates

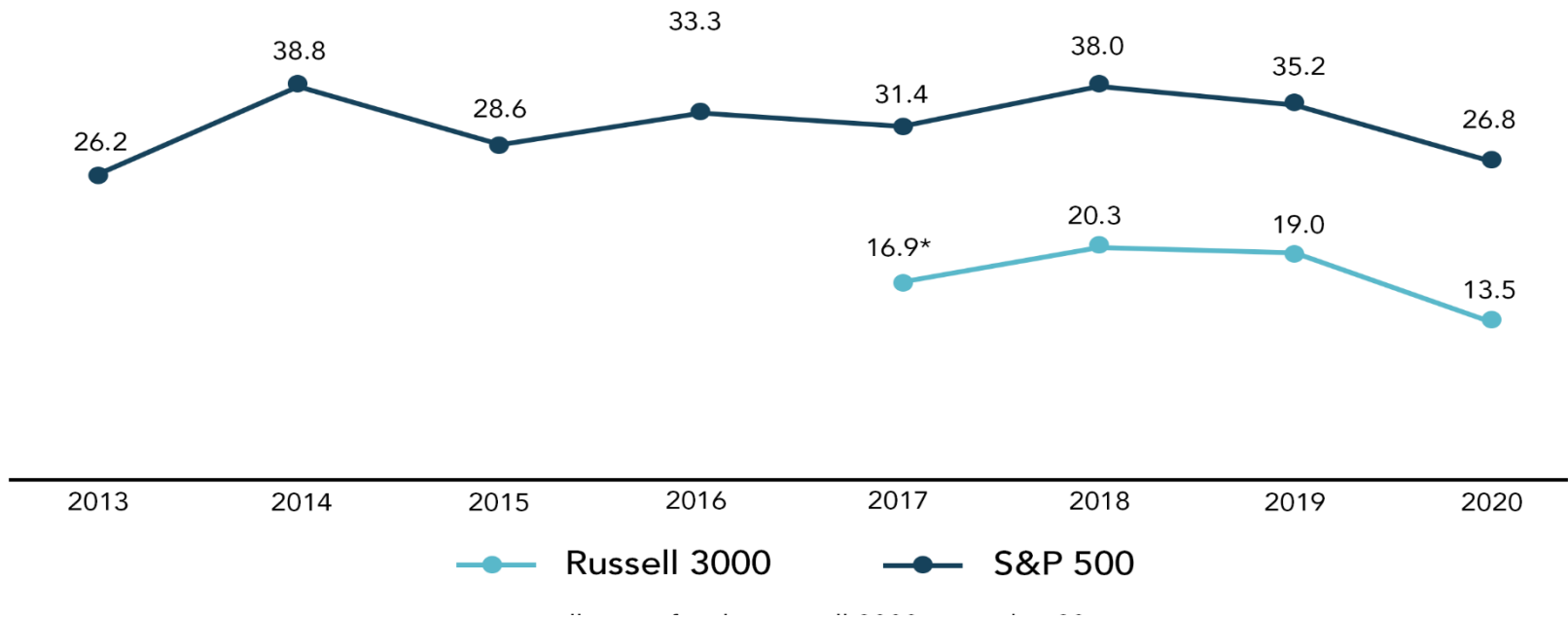
32. Effective English Business Communications
33. Non-IT Digital Marketing Certification (CMMP®)
34. IT Digital Marketing Certification (CMMP®)
35. IT Business/Management Considerations (e.g., finance, organizational behavior, accounting, statistics, economics, leadership)

CIO YEARS IN CURRENT POSITION

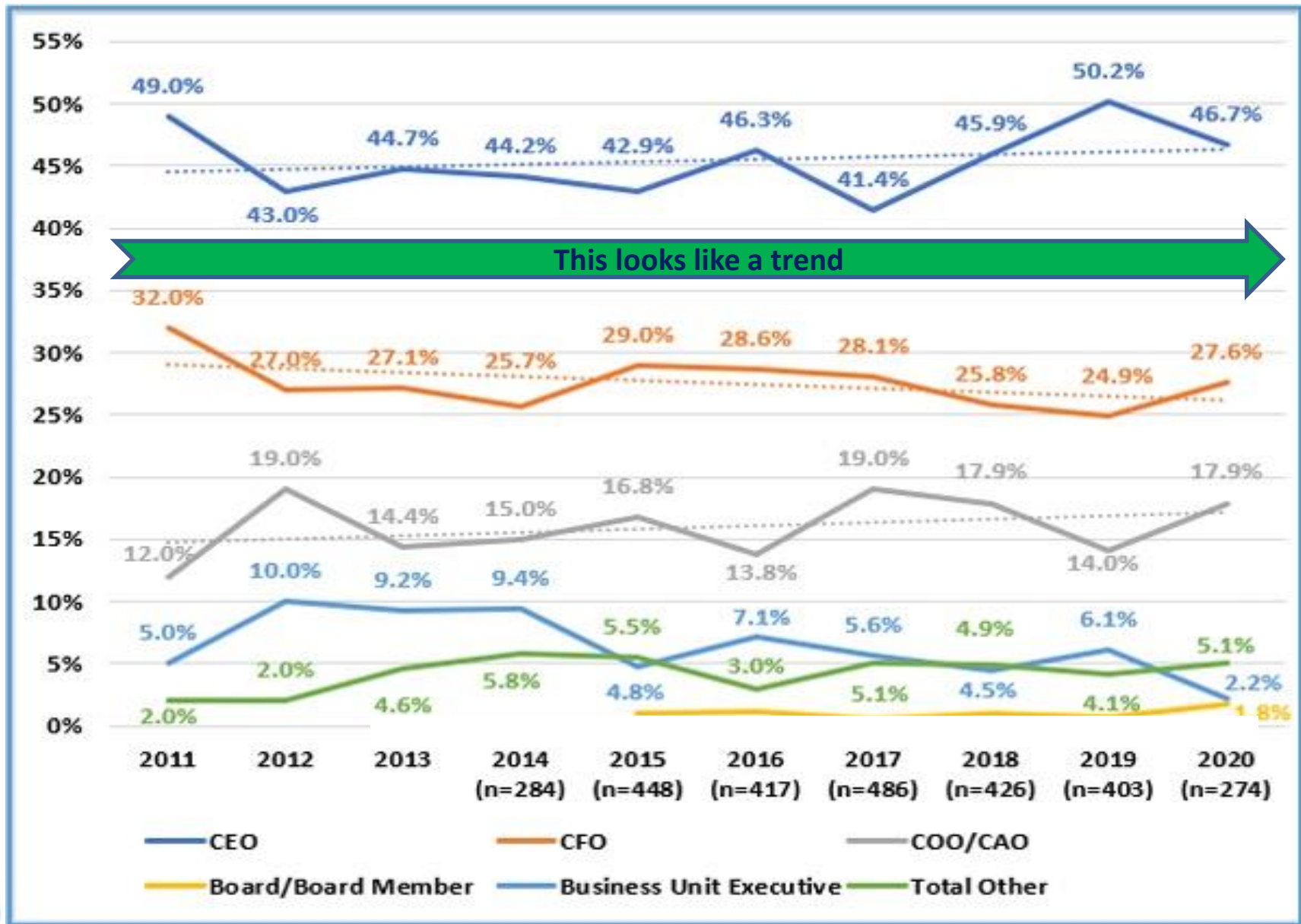




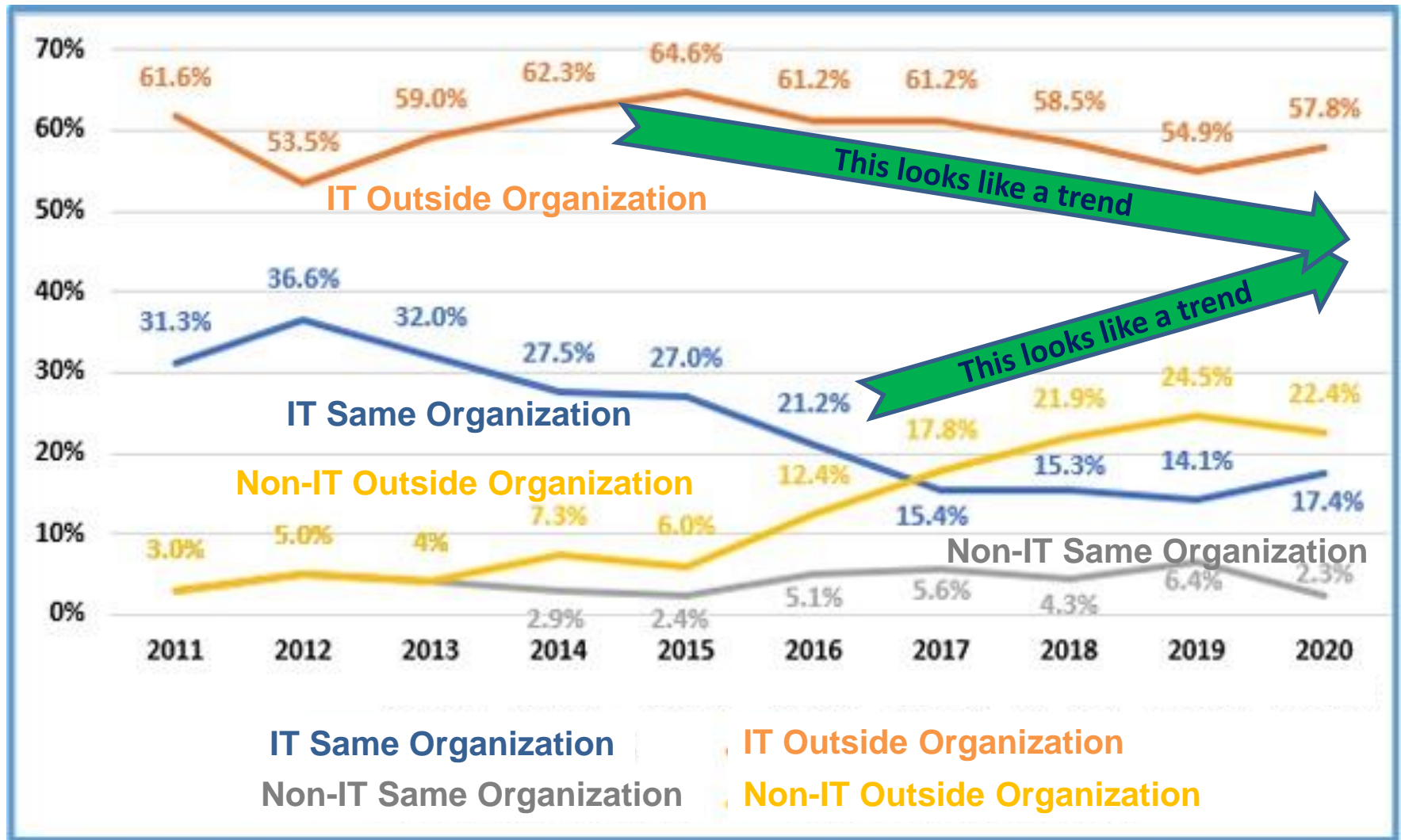
THE CEO TENURE



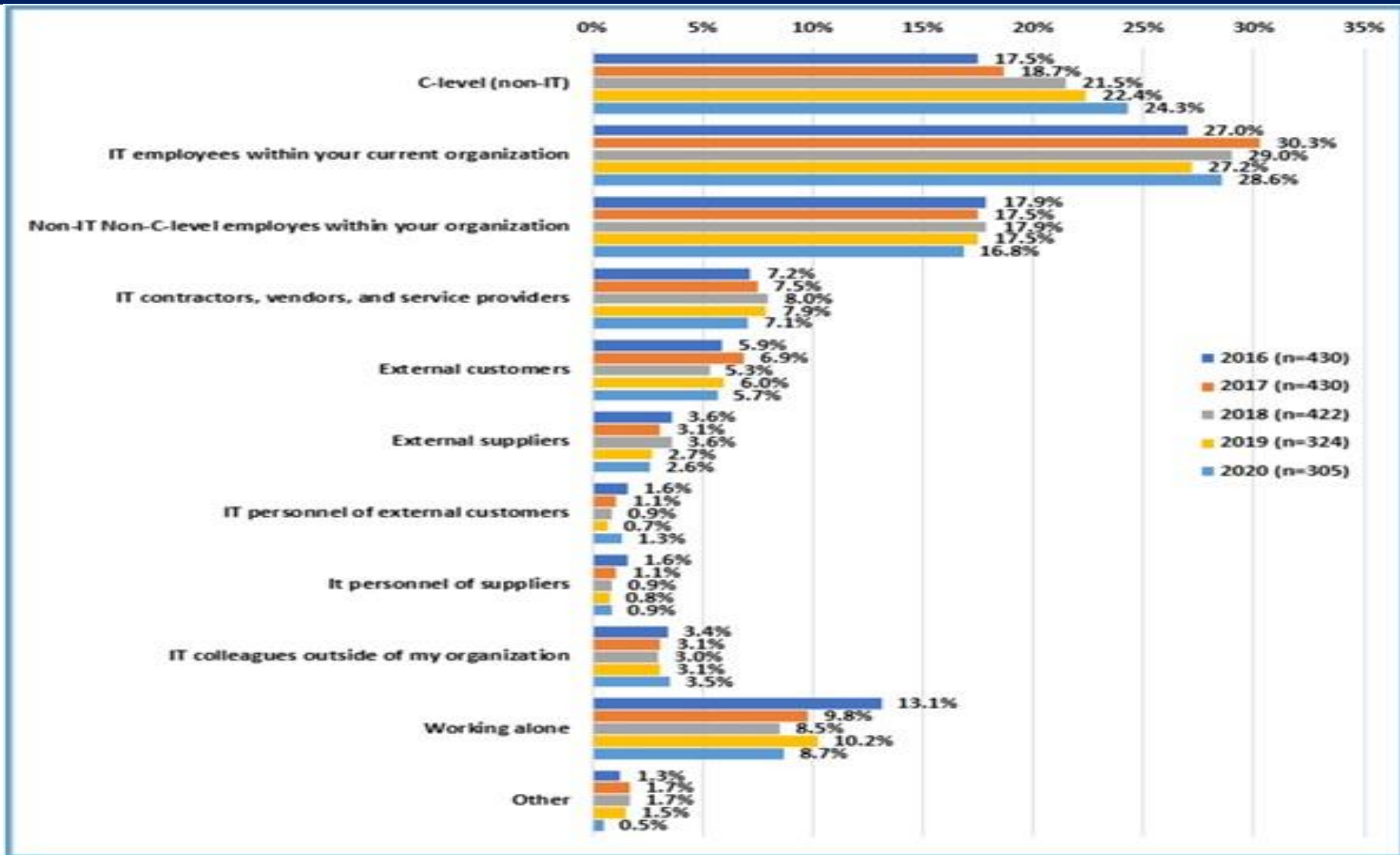
TO WHOM CIO OR EQUIVALENT REPORTS



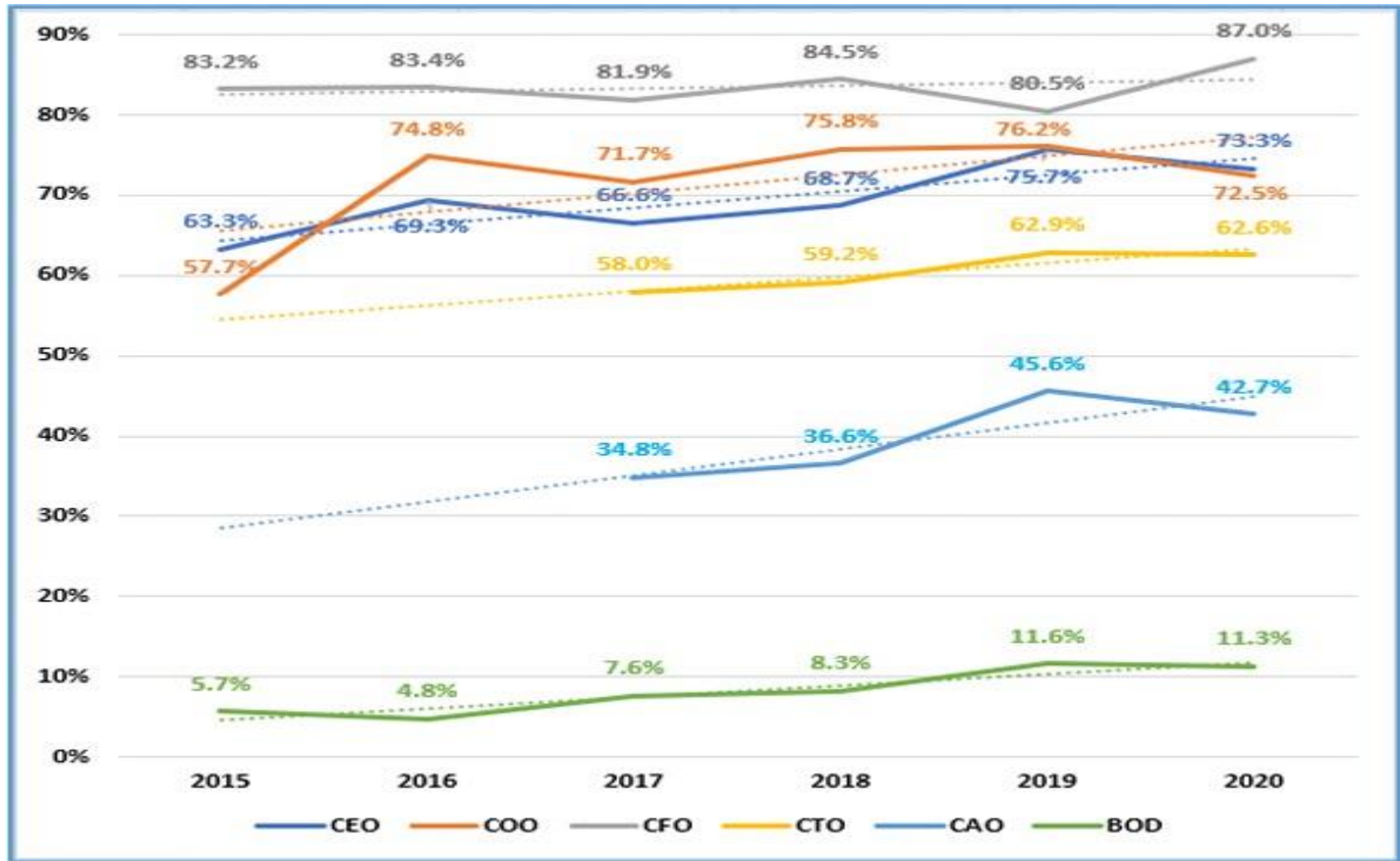
LAST POSITION BEFORE CIO OR EQUIVALENT



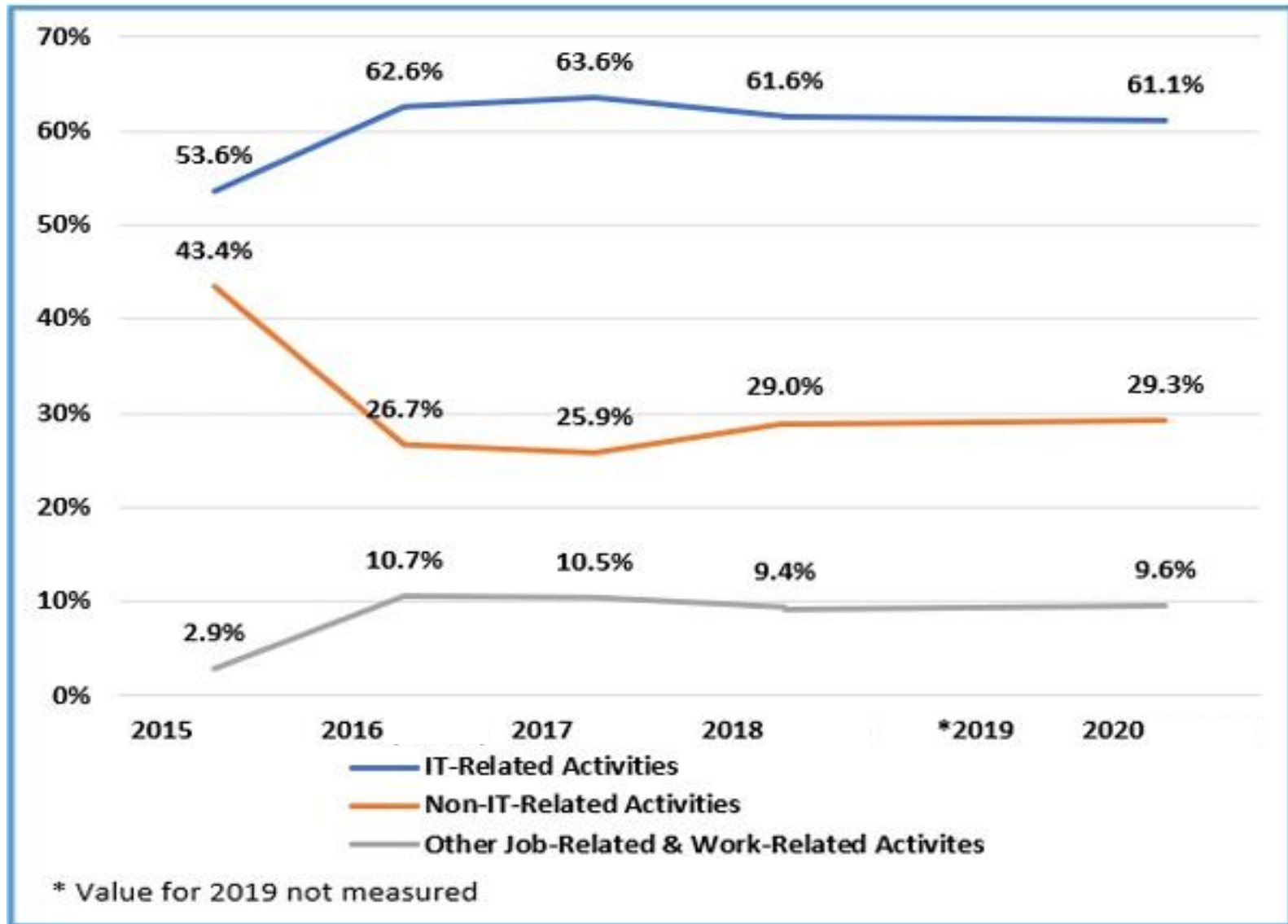
WITH WHOM DO CIOs SPEND THEIR TIME



CIOs SPEND THEIR TIME WITH C LEVELS



CIOS SPEND THEIR TIME



To Whom Does the CISO (or Equivalent) Report?

Position	% of Organizations		
	2018	2019	2020
CIO (Information)	62.3%	62.9%	57.5%
CEO/President	10.9%	12.1%	11.4%
CTO (Technology)	7.3%	9.0%	9.9%
Other	5.6%	4.3%	8.4%
COO (Operating)	5.6%	4.7%	6.6%
CFO/Treasurer/Finance	4.0%	2.0%	4.4%
Board/Board Member	0.3%	3.5%	1.8%
CLO (Legal)	2.3%	0.8%	
Internal Audit	1.0%	0.4%	
CCO (Compliance)	0.3%	0.0%	
CAO (Administrative)	0.3%	0.4%	

IT METRICS USED MOST

Availability / Up Time	1 (51.6%)	1 (41.1%)
Customer / User Satisfaction -Internal Users	2 (38.1%)	3 (23.0%)
Cost Control / Reduction -IT	3 (29.6%)	2 (29.9%)
Value of IT to the Business	4 (23.9%)	13 (9.0%)
Help Desk Performance	5 (23.6%)	4 (20.2%)
Cyber-security Related	5 (23.6%)	6 (17.8%)
Customer / User Satisfaction (External User)	7 (19.9%)	11 (10.5%)
Projects Delivered -on Time	8 (17.9%)	8 (17.3%)
IT Service Quality	9 (16.5%)	7 (17.6%)
Projects Delivered -on Budget	10 (13.9%)	9 (16.4%)
IT Budget Compliance	11 (12.8%)	17 (6.7%)
IT's Contribution to Strategy	12 (11.7%)	24 (3.6%)
Productivity Improvements (Business)	13 (11.5%)	21 (4.8%)
IT Spending -as % of Revenue	14 (11.4%)	20 (5.0%)
Cost Control / Reduction -Business	15 (9.1%)	16 (6.9%)
Innovative New Ideas	15 (9.1%)	22 (4.5%)
Improved Decision Making	17 (8.5%)	28 (2.1%)
Total Cost of Ownership	18 (7.7%)	12 (9.7%)
Productivity Improvement -IT	19 (7.4%)	14 (8.8%)
Increases in New Products or Services	20 (7.2%)	25 (3.1%)

ARE THESE WHAT SENIOR NON-IT EXECUTIVES
FOCUS ON?

BUSINESS LEADERS/EXECUTIVES EXCITED & PARANOID

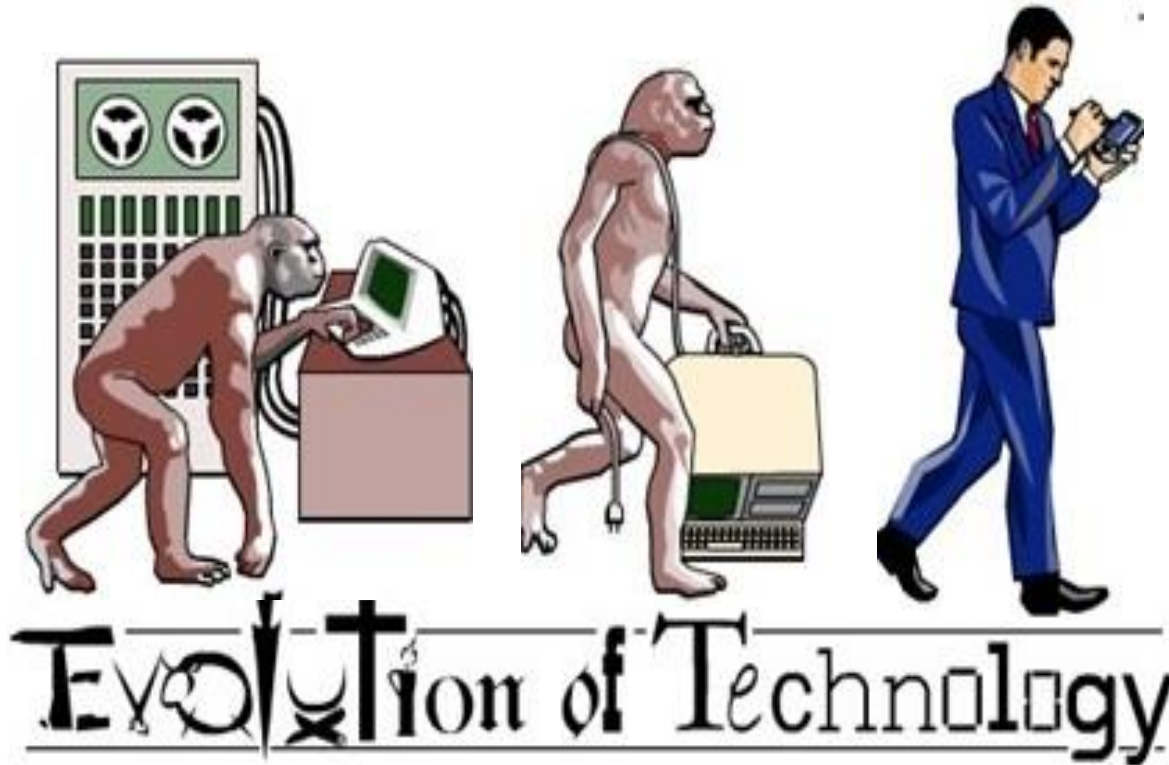
Organizations need leaders & managers to

- Identify what questions to focus on
- Understand the business issues
- Make judgment calls
- Align IT & business considerations

What happens to the role of the IT/business leader?

- Order Taker → Order Shaker...Future Focused
- Integration of technologies & security
 - ✓ **S**ocial
 - ✓ **M**obile
 - ✓ **A**alytics, Big Data, IoT
 - ✓ **C**loud
 - ✓ Legacy Systems
- Significant organization & governance considerations CIO vs CDO/CAO vs CISO vs CTO

BUSINESS LEADERS/EXECUTIVES EXCITED & PARANOID



How
↓
What



ESSENTIAL QUESTIONS:

- Should/can organizations consider data, analytics, Robotics Process Automation, AI, cognitive computing, security, Blockchain, etc.,
 - independently or
 - **as an integrated technical and business strategy?**

➤ Where should the above technologies report in an organization?



➤ Are there different answers when first introducing a technology versus when scaling a technology?

➤ Change management, culture, organization, governance...ALIGNMENT



Managing change is an art, NOT a technology.



Transformation is inevitable, and meant to be difficult and likely discomfoting, perhaps even painful. Preparation is essential.

WHY DISCUSS IT-BUSINESS **STILL** ALIGNMENT?

1. Consider their organizations are not misaligned
2. Too often considered just IT aligned with the business
3. Semantics: alignment vs integrate, harmony, link, fuse, affiliate, coalition, fit, match, meld, converge, IT is the business (IT-ification of business), interwoven, holism, empathy, partner, synchronization...
4. In search of mythical silver bullet
5. Focusing on infrastructure/architecture
6. How do you know if your alignment is “appropriate”?
7. Can we move from a descriptive vehicle to a prescriptive vehicle?



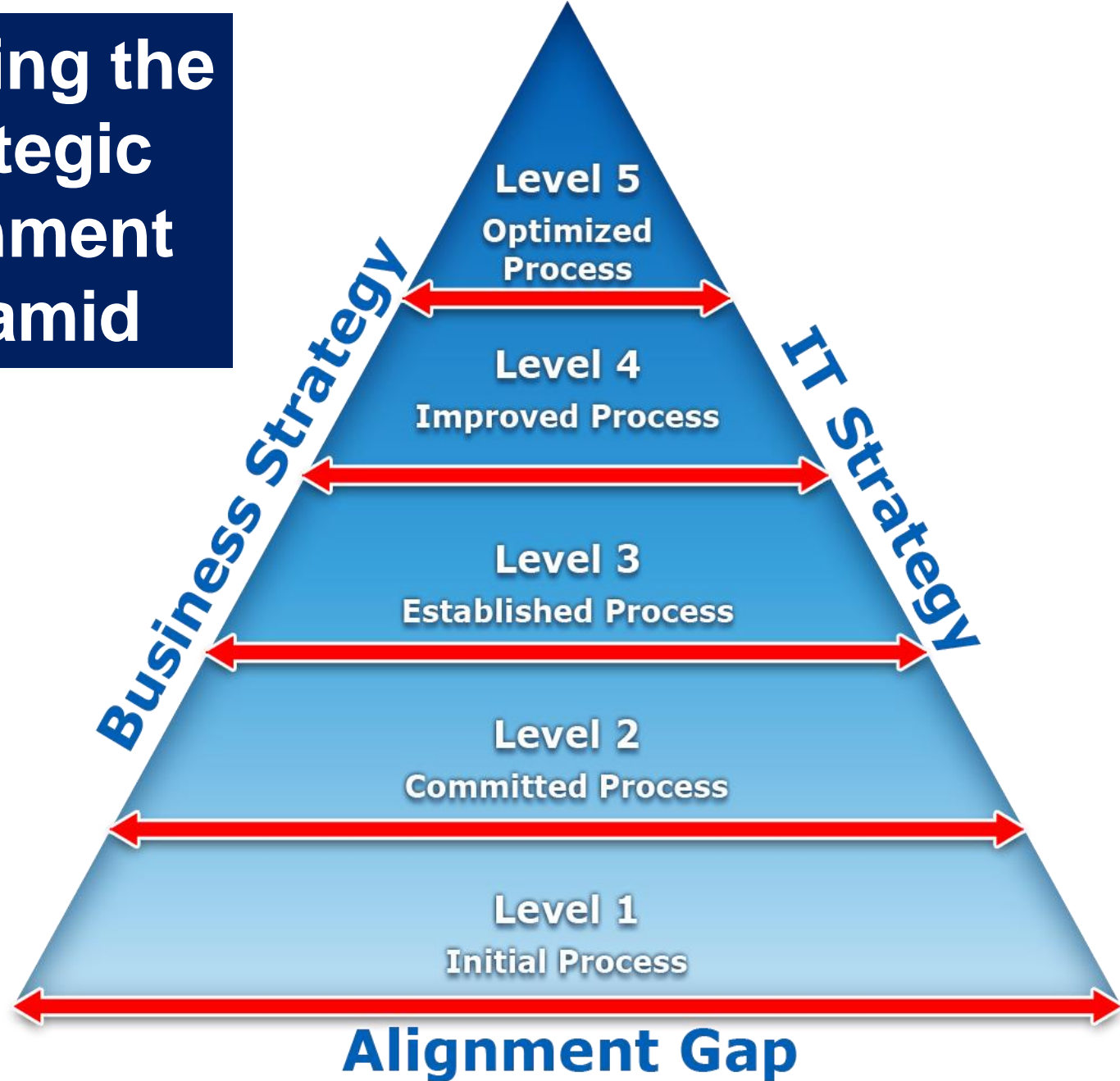
GIIM

STRATEGIC
MANAGEMENT
LEADERSHIP
DIGITAL
AGILE
INNOVATE
EDUCATE
R
GOVERNANCE
COMMUNICATION
TECHNOLOGY
BUSINESS
ESSAYS

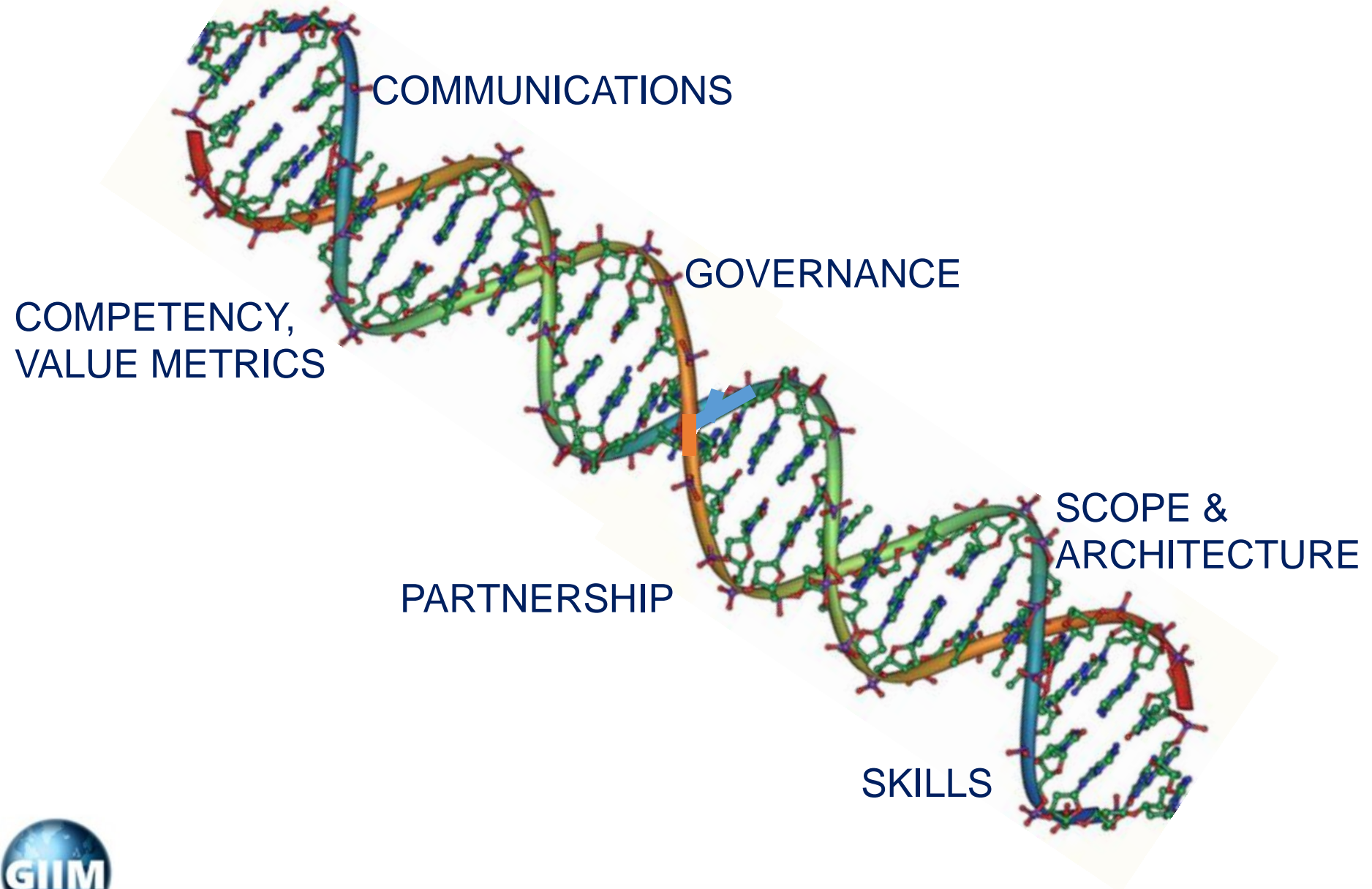


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FOR IT MANAGEMENT

Climbing the Strategic Alignment Pyramid



STRATEGIC ALIGNMENT DNA



COMMUNICATIONS

- Understanding of Business by IT
- Understanding of IT by Business
- Inter/Intraorganizational Learning/Education
- Protocol Rigidity
- Knowledge Sharing
- Liaison(s) effectiveness

COMPETENCY/VALUE MEASUREMENTS

- IT Metrics
- Business Metrics
- Balanced Metrics
- Service Level Agreements
- Benchmarking
- Formal Assessments/Reviews
- Continuous Improvement

GOVERNANCE

- Business Strategic Planning
- IT Strategic Planning
- Organization Structure
- Budgetary Control
- IT Investment Management
- Steering Committee(s)
- Prioritization Process

IT BUSINESS ALIGNMENT MATURITY CRITERIA

PARTNERSHIP

- Business Perception of IT Value
- Role of IT in Strategic Business Planning
- Shared Goals, Risk, Rewards/Penalties
- IT Program Management
- Relationship/Trust Style
- Business Sponsor/Champion

SCOPE & ARCHITECTURE

- Traditional, Enabler/Driver, External
- Standards Articulation
- Architectural Integration:
 - Functional Organization
 - Enterprise
 - Inter enterprise
- Architectural Transparency, Agility, Flexibility
- Manage Emerging Tech.

SKILLS

- Innovation, Entrepreneurship
- Cultural Locus of Power
- Management Style
- Change Readiness
- Career crossover; training/education
- Social, Political, Trusting Interpersonal Environment
- Hiring and retaining

Strategic Alignment Maturity Summary

Level 5 •Optimizing process

- COMMUNICATIONS: Informal, pervasive
- COMPETENCY/VALUE: Extended to external partners
- GOVERNANCE: Integrated across the org & partners
- PARTNERSHIP: IT-business co-adaptive/improvisational
- SCOPE & ARCHITECTURE: Evolve with partners
- SKILLS: Education/careers/rewards across the organization

Level 4 •Improved/ managed process

- COMMUNICATIONS: Bonding, unified
- COMPETENCY/VALUE: Cost effective;Some partner value;Dashboard managed
- GOVERNANCE: Managed across the organization
- PARTNERSHIP: IT enables/drives business strategy
- SCOPE & ARCHITECTURE: Integrated with partners
- SKILLS: Shared risk & rewards

Level 3 •Established focused process

- COMMUNICATIONS: Good understanding; Emerging relaxed
- COMPETENCY/VALUE: Some cost effectiveness; Dashboard established
- GOVERNANCE: Relevant process across the organization
- PARTNERSHIP: IT seen as an asset; Process driver;Conflict seen as creative
- SCOPE & ARCHITECTURE: Integrated across the organization
- SKILLS: Emerging value service provider;Balanced tech & business hiring

Level 2 •Committed process

- COMMUNICATIONS: Limited business/IT understanding
- COMPETENCY/VALUE: Functional cost efficiency
- GOVERNANCE: Tactical at Functional level,occasional responsive
- PARTNERSHIP: IT emerging as an asset; Process enabler
- SCOPE & ARCHITECTURE: Transaction (e.g., ESS, DSS)
- SKILLS: Differs across functional organizations

Level 1

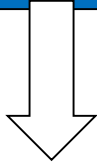
•Initial/Ad-Hoc process

- COMMUNICATIONS: Business/IT lack understanding
- COMPETENCY/VALUE: Some technical measurements
- GOVERNANCE: No formal process,cost center, reactive priorities
- PARTNERSHIP: Conflict; IT a cost of doing business
- SCOPE & ARCHITECTURE: Traditional (e.g., acctng, email)
- SKILLS: IT takes risk, little reward; Technical training



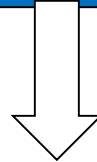
Value Measurements

- Customer & Provider Metrics (tech. & bus.) for services
- SLA & Management Process
- Benchmarks
- Formal Assessments & Improvement Reviews



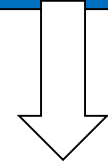
Governance

- Use of Joint Strategic, Tactical & Operational Committees
- Formal/Informal Mechanisms
- Prioritization Process
- Resource Allocation Process
- Statutory & Regulatory Requirements

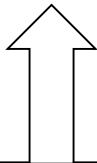


Partnership

- Role of Provider in Customer Strategy & Planning
- Shared Goals, Risks, Rewards/Penalties
- Mutual Trust
- Formal & Informal Agreements
- Joint Sponsor & Champions

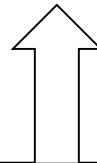


CUSTOMER-PROVIDER ALIGNMENT MATURITY CRITERIA



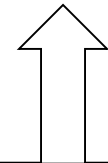
Communications

- Customer Understanding of Provider
- Provider Understanding of Customer
- Organizational Learning & Knowledge Sharing
- Customer-Provider Liaison



Human Resources & Skills

- Technical & Business Skills of Customer & Provider
- Cultural Match
- Change Readiness
- Cross Training/Education
- Hiring/Retaining; Skills Management & Portfolio

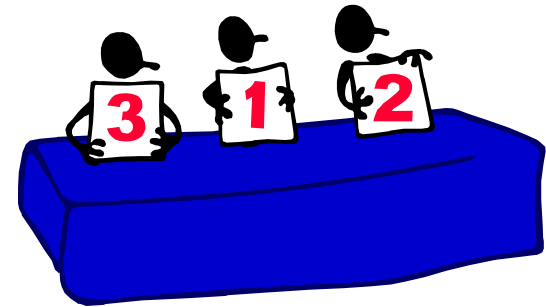


Scope & Architecture

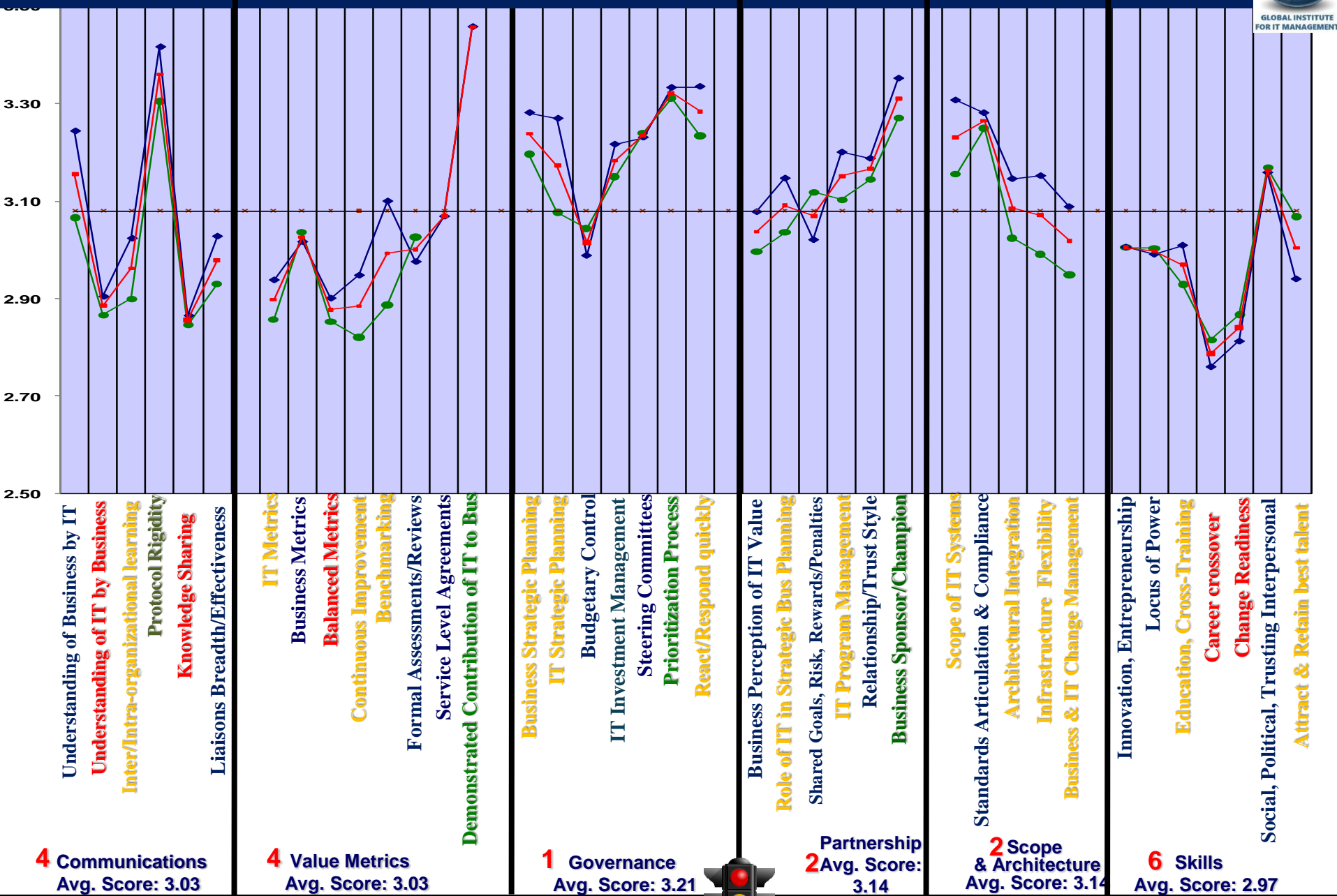
- Architectural Agility, Transparency, Flexibility
- Standards Adherence
- Impact of Provider Services on Customer & its Partners

IT IS NOT JUST THE LEVEL OF MATURITY

- Where is the organization strong/weak?
- Where is there disagreement?
- What are the implications?
- What can be done to improve the maturity level (prescriptive)?
- It opens the door to discuss alignment



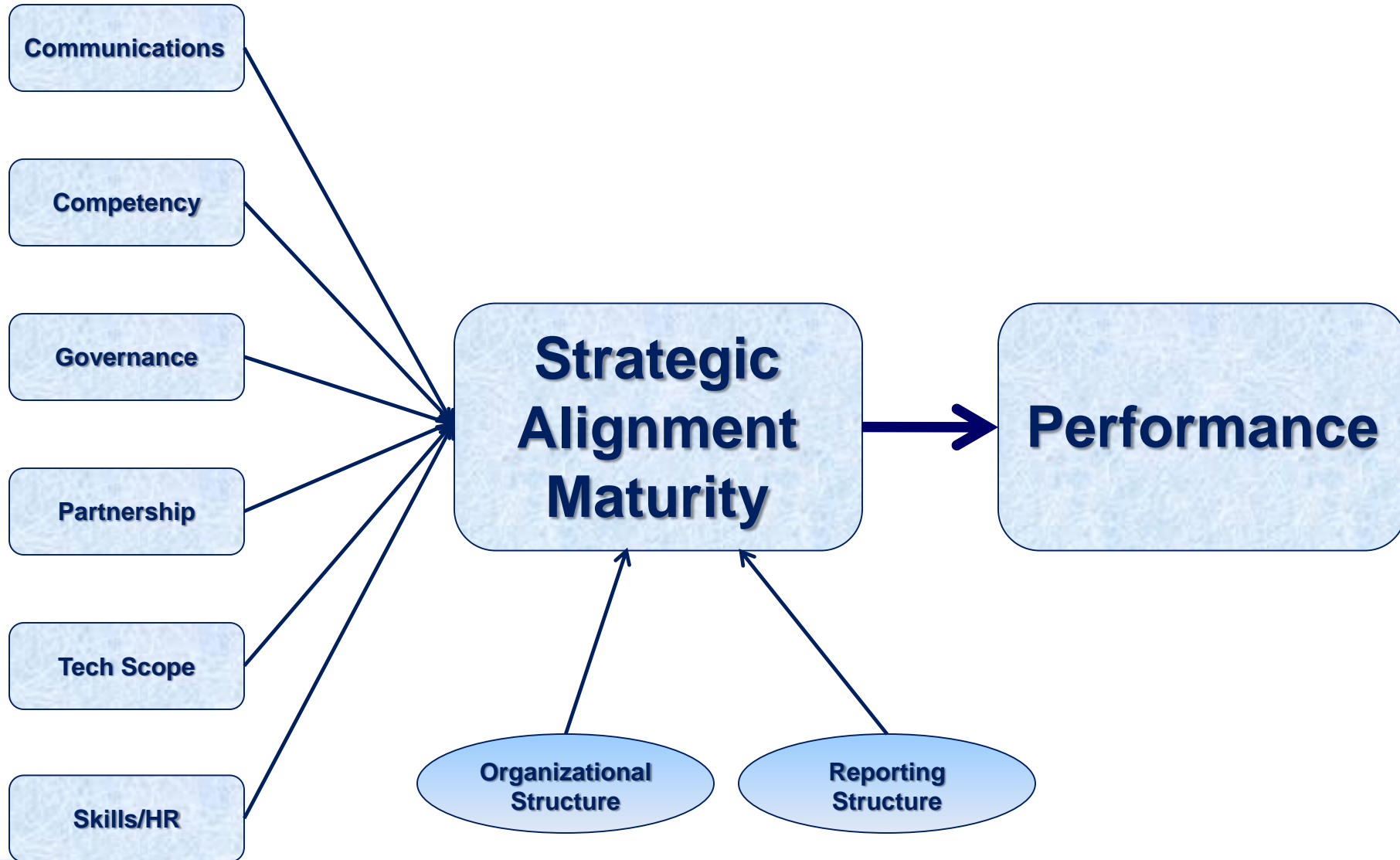
Overall SAM Assessment Maturity



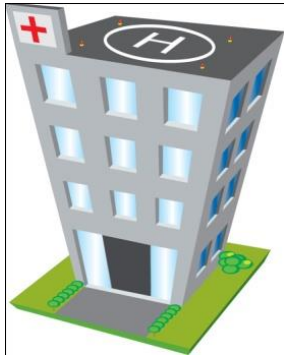
* Overall Alignment Average Score: 3.09

◆ IT ● BUS ■ Average

SAM Performance Framework



SAM Performance Framework



Communic.

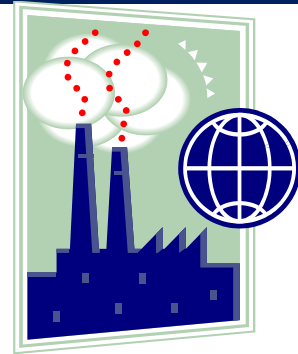
Competency

Governance

Partnership

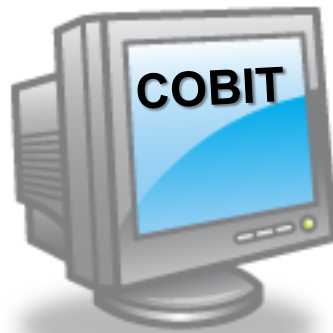
Tech Scope

Skills/HR



**Strategic
Alignment
Maturity**

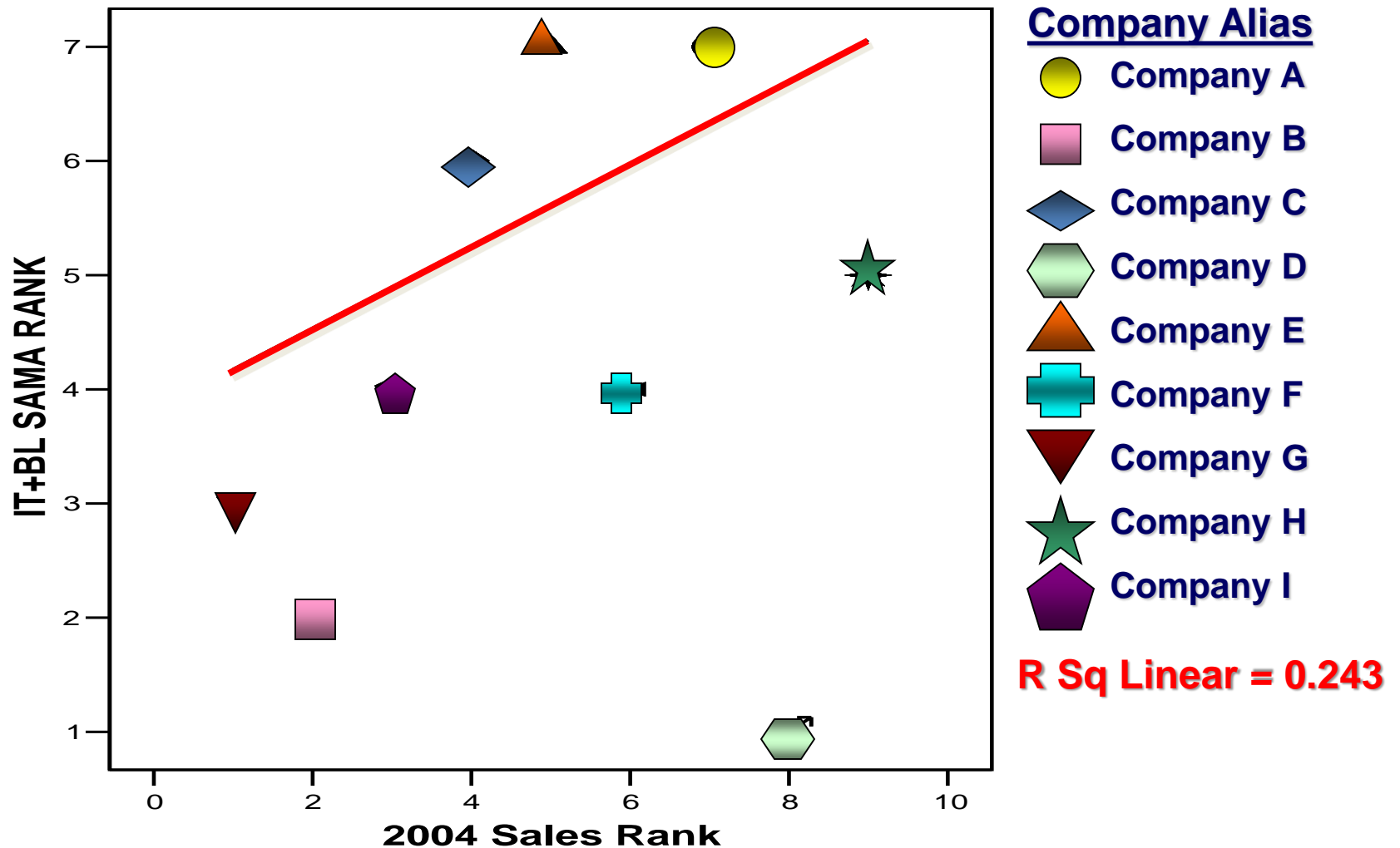
Performance



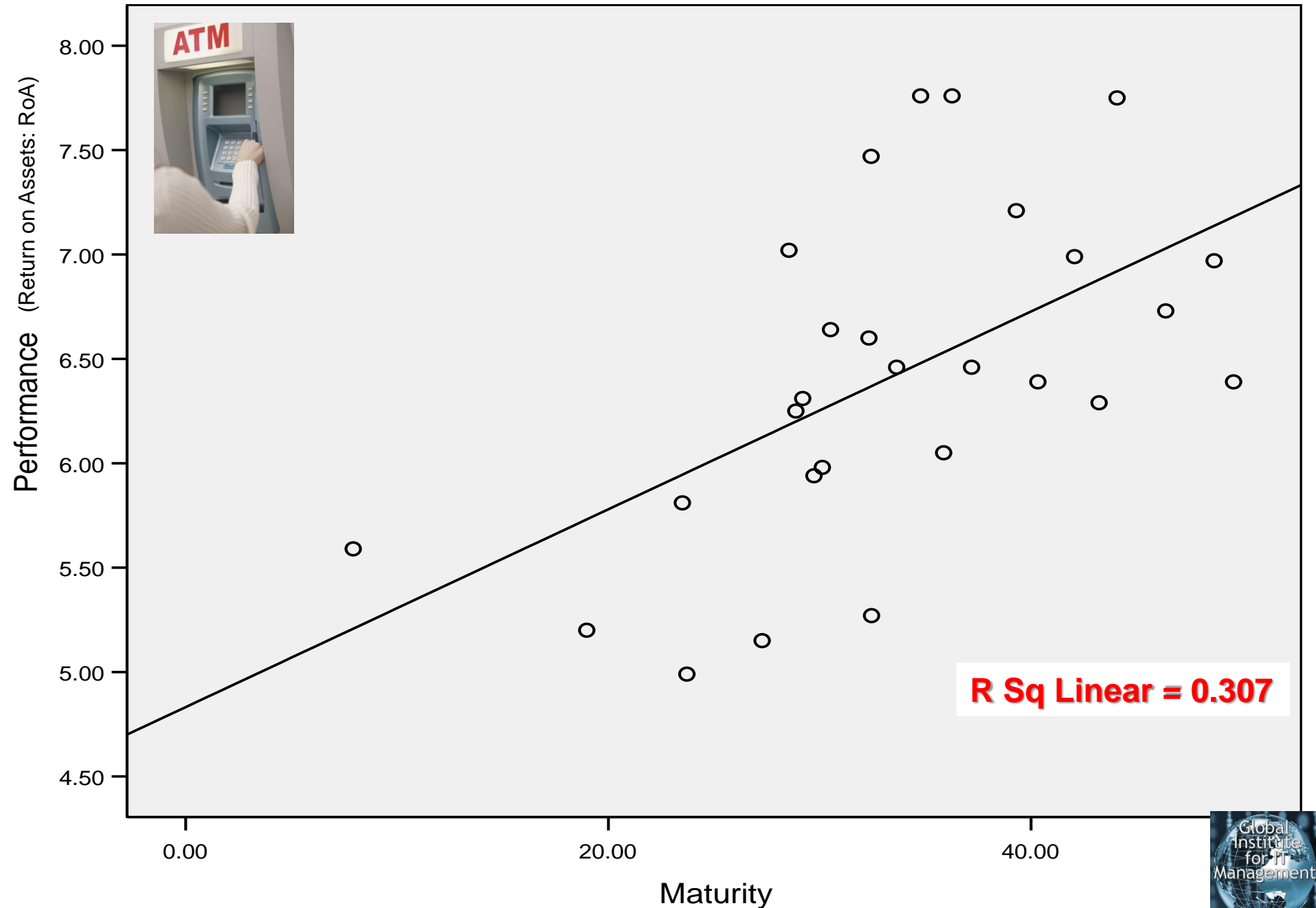
Outsourcing



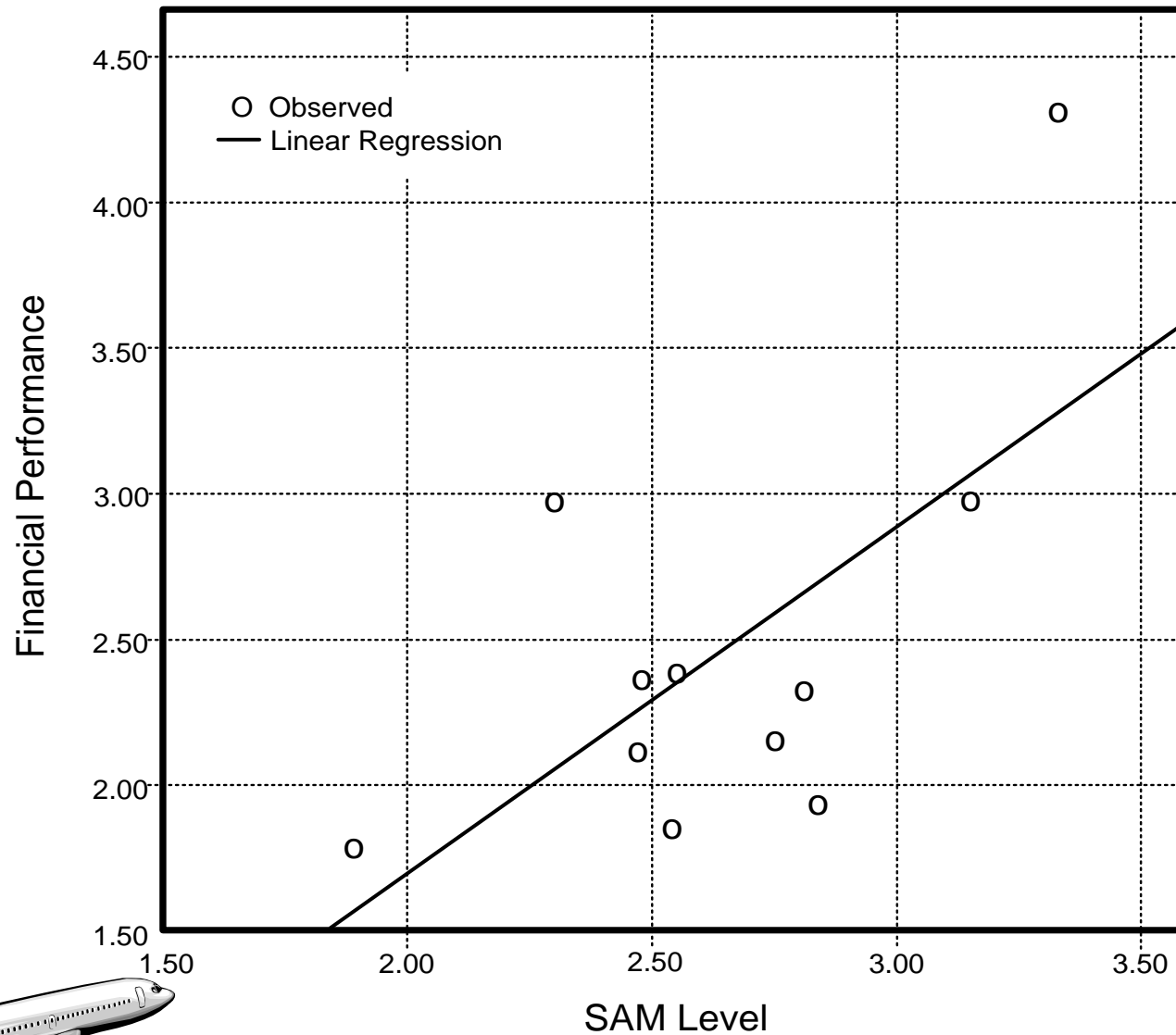
Pharma Correlation between Strategic Alignment Maturity and Sales



Banking Organizations: Organizational Performance and Maturity



Financial Metric vs. SAM Level



Correlation is significant at the 0.05 level (2 tailed)

Ryan

	<u>R²</u>
SAM	.412
COMM	.457
COMP	.487
GOV	.197
PART	.248
SCOPE	.285
SKILL	.306





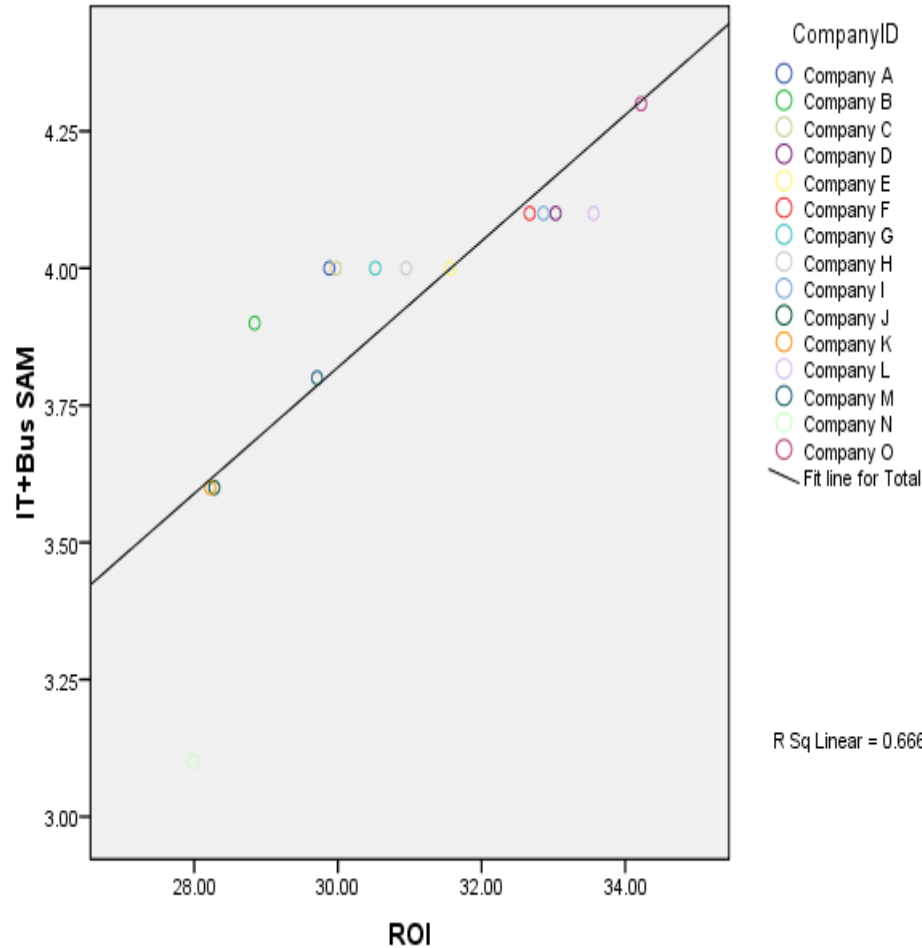
		Fleet Size	Annual Revenue	Load Factor	Financial Performance	Operational Performance
SAM	Pearson Correlation - R ²	0.013	0.016	0.434	0.412	0.183
	Sig. (2-tailed) - p	0.734	0.712	0.027*	0.033*	.397
	N	11	11	11	11	6
COMM	Pearson Correlation - R ²	0.008	0.003	0.097	0.457	0.014
	Sig. (2-tailed) - p	0.797	0.876	0.351	0.023*	.824
	N	11	11	11	11	6
COMP	Pearson Correlation - R ²	0.002	0.053	0.403	0.487	0.207
	Sig. (2-tailed) - p	0.893	0.496	0.036*	0.017*	.364
	N	11	11	11	11	6
GOV	Pearson Correlation - R ²	0.022	0.044	0.743	0.197	0.230
	Sig. (2-tailed) - p	0.663	0.538	0.001**	0.171	.335
	N	11	11	11	11	6
PART	Pearson Correlation - R ²	0.000	0.055	0.462	0.248	0.392
	Sig. (2-tailed) - p	0.972	0.487	0.021*	0.119	.184
	N	11	11	11	11	6
SCOPE	Pearson Correlation - R ²	0.032	0.024	0.590	0.283	0.165
	Sig. (2-tailed) - p	0.596	0.652	0.006**	0.092	.424
	N	11	11	11	11	6
SKILL	Pearson Correlation - R ²	0.031	0.010	0.060	0.306	0.206
	Sig. (2-tailed) - p	0.602	0.772	0.471	0.077	.366
	N	11	11	11	11	6

* Correlation is significant at the 0.05 level

** Correlation is significant at the 0.01 level

Correlation Analysis of SAM Scores to Return on Investment (ROI) – Indian IT Service Firms

Shows significant positive correlation of .401 at the .01 level



Correlations

			SAM Total	ROI
Kendall's tau_b	SAM Total	Correlation Coefficient	1.000	.401**
		Sig. (2-tailed)	.	.000
		N	90	90
	ROI	Correlation Coefficient	.401**	1.000
		Sig. (2-tailed)	.000	.
		N	90	90
Spearman's rho	SAM Total	Correlation Coefficient	1.000	.542**
		Sig. (2-tailed)	.	.000
		N	90	90
	ROI	Correlation Coefficient	.542**	1.000
		Sig. (2-tailed)	.000	.
		N	90	90

** . Correlation is significant at the .01 level (2-tailed).

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	106.995	1	106.995	37.017	.000 ^a
	Residual	254.360	88	2.890		
	Total	361.356	89			

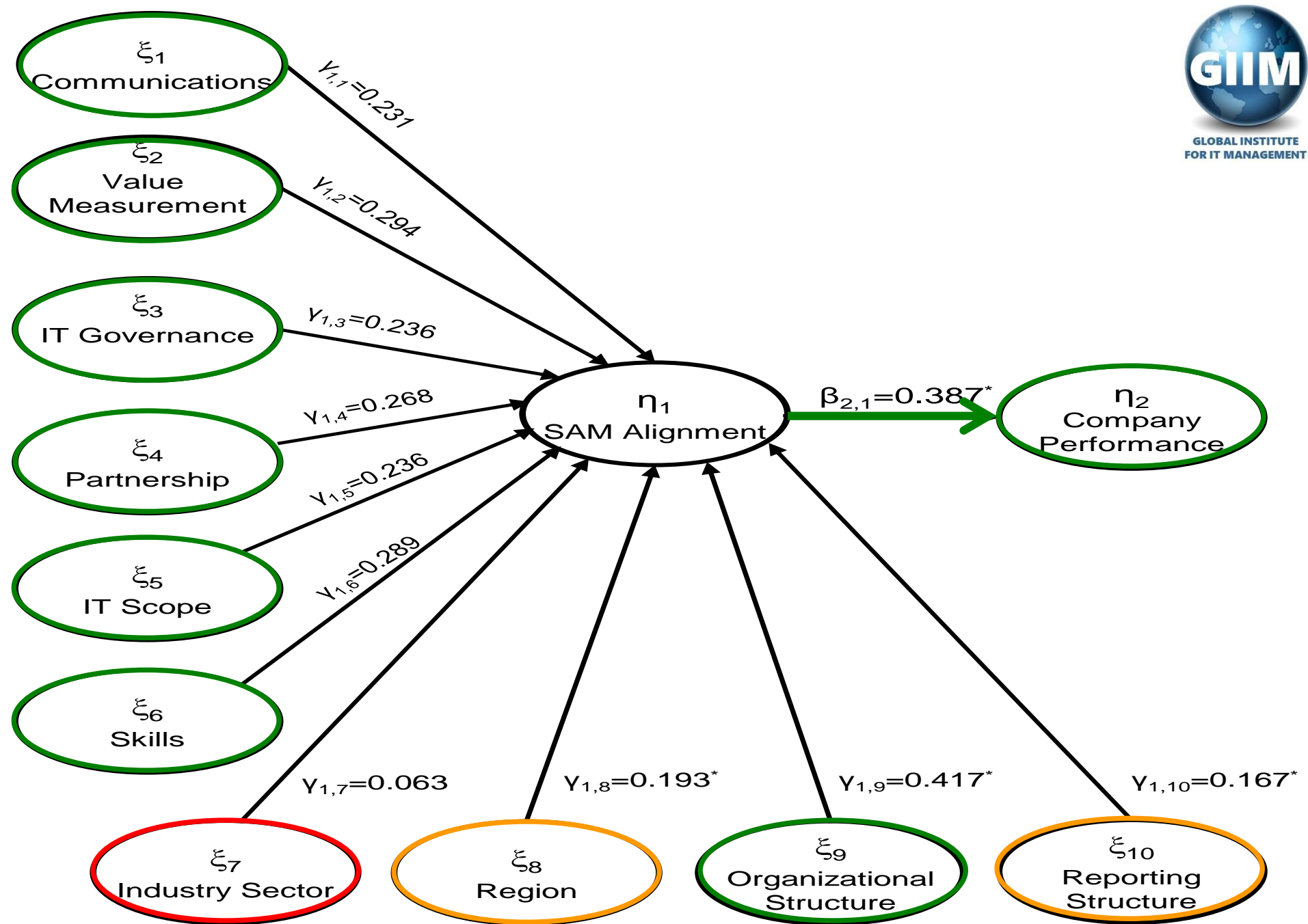
a. Predictors: (Constant), SAM Total

b. Dependent Variable: ROI

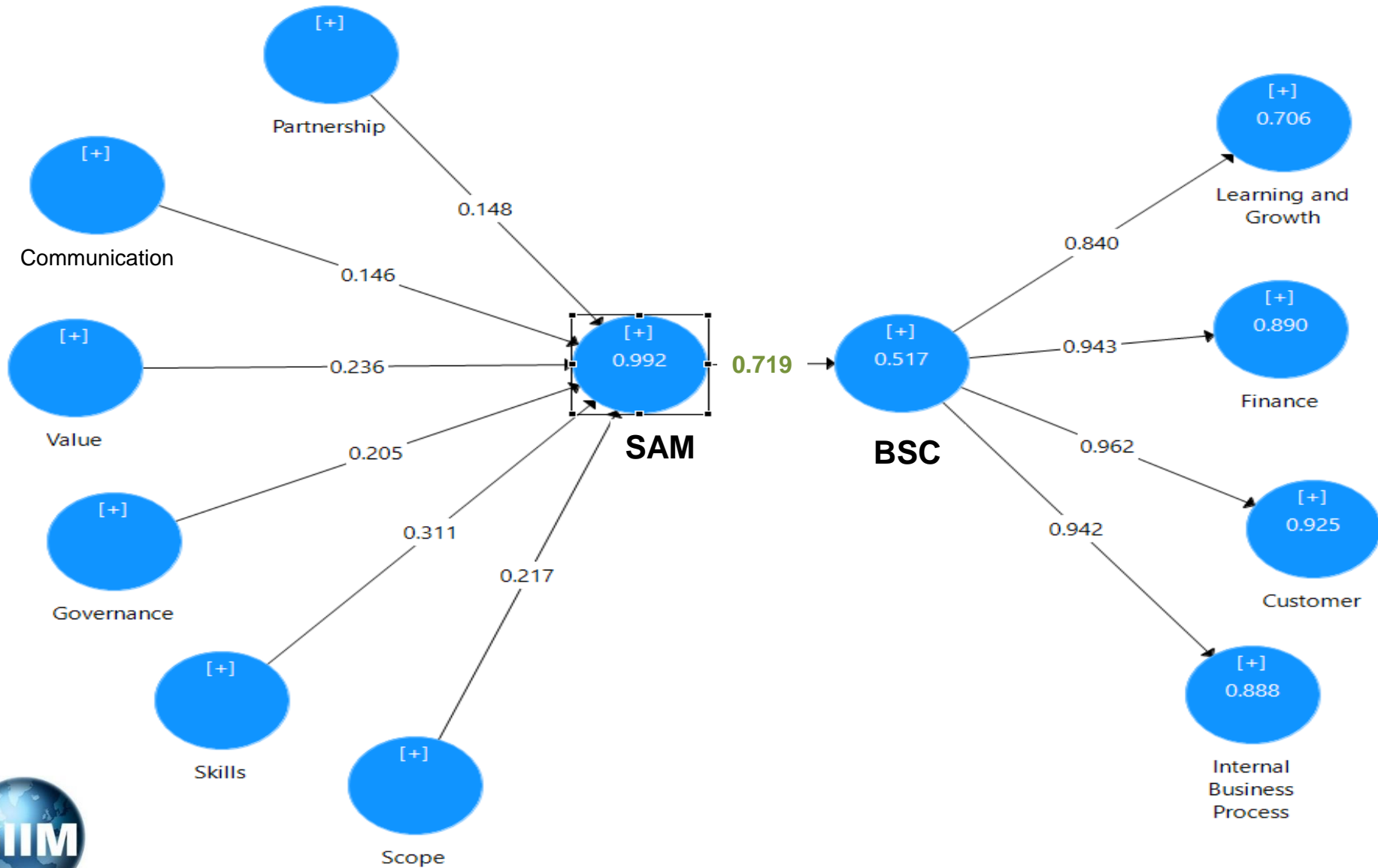
Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	19.901	1.803		11.037	.000
	SAM Total	2.787	.458	.544	6.084	.000

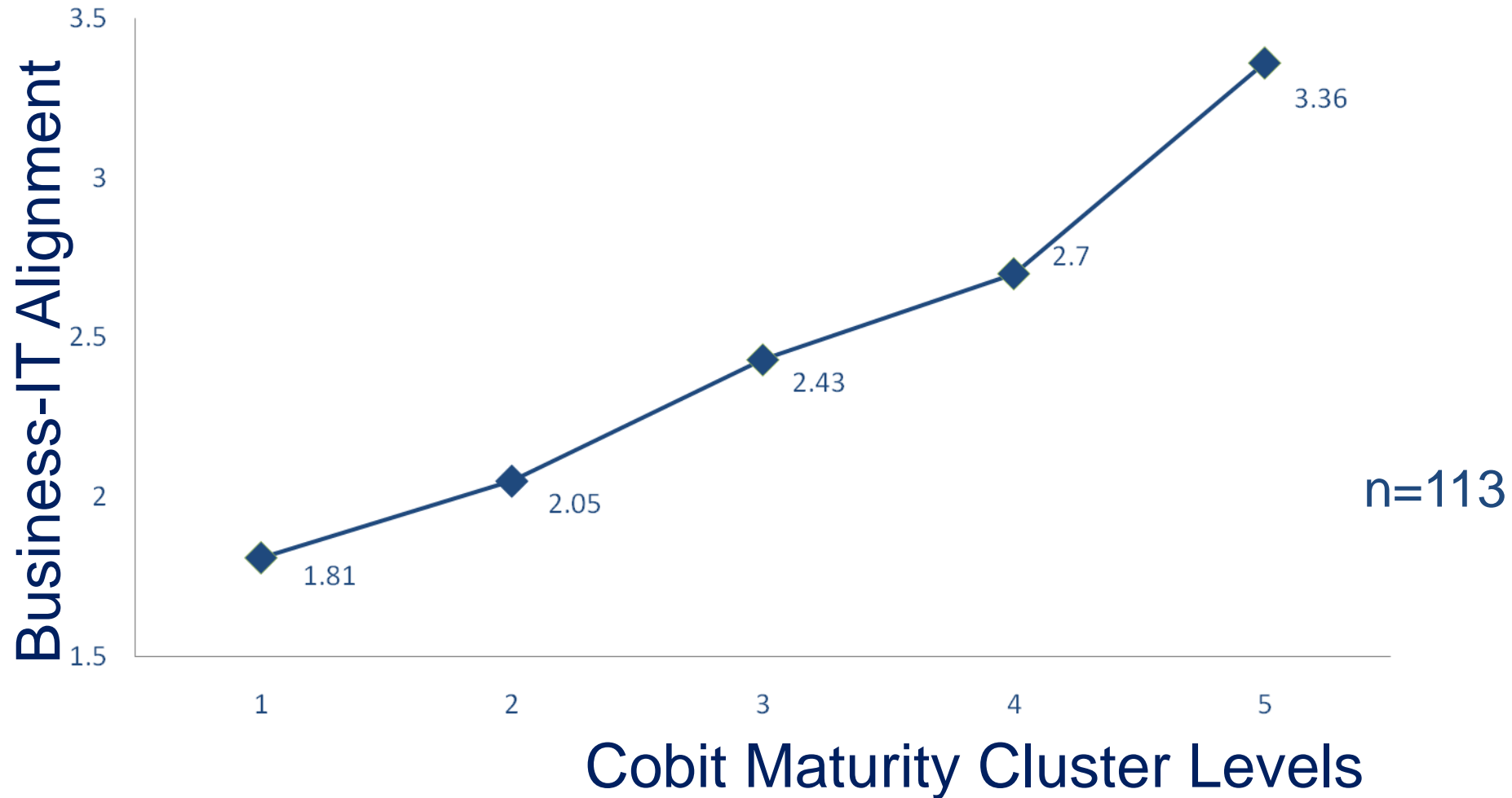
a. Dependent Variable: ROI



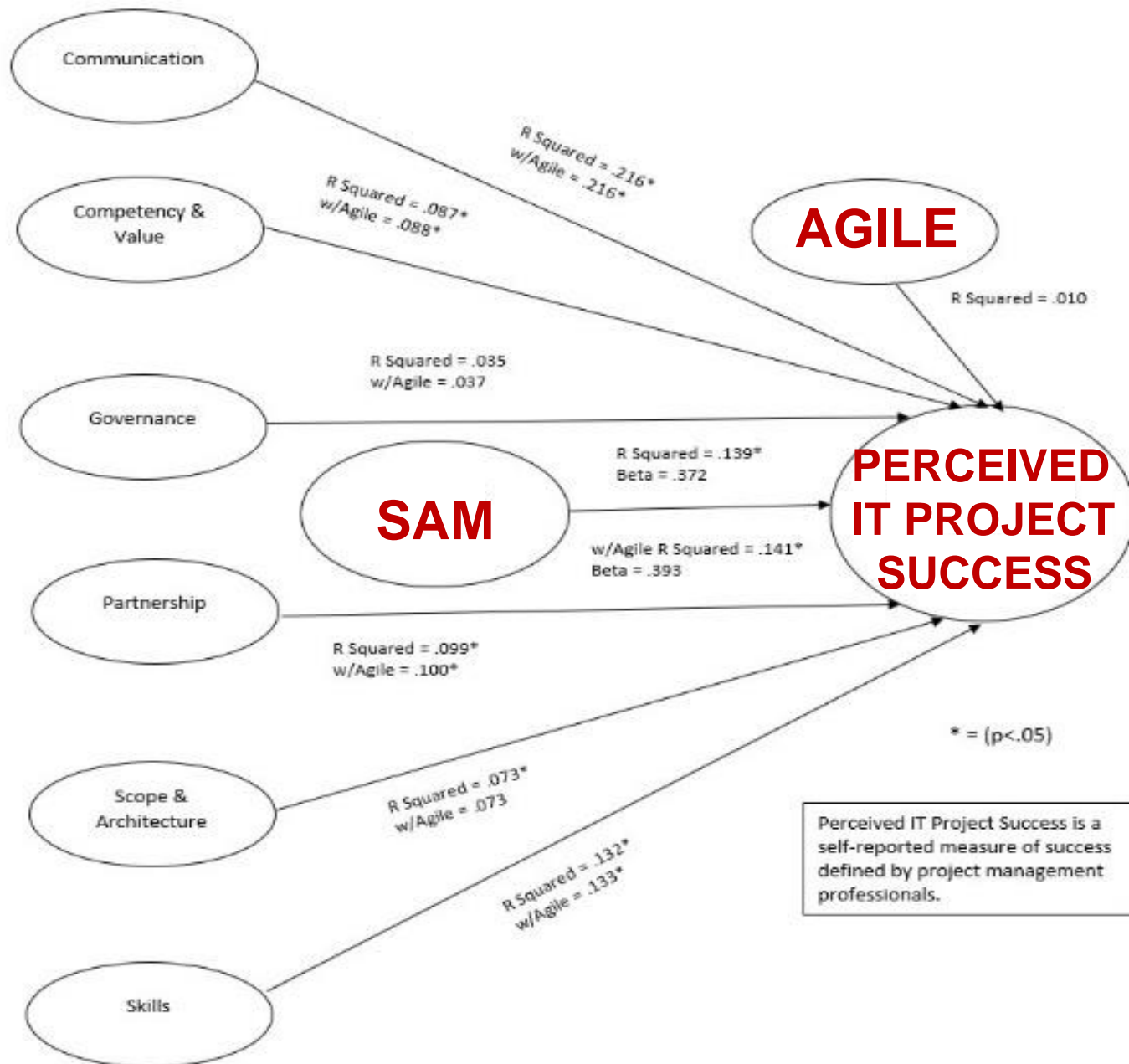
Balance Scorecard & Business-IT Alignment



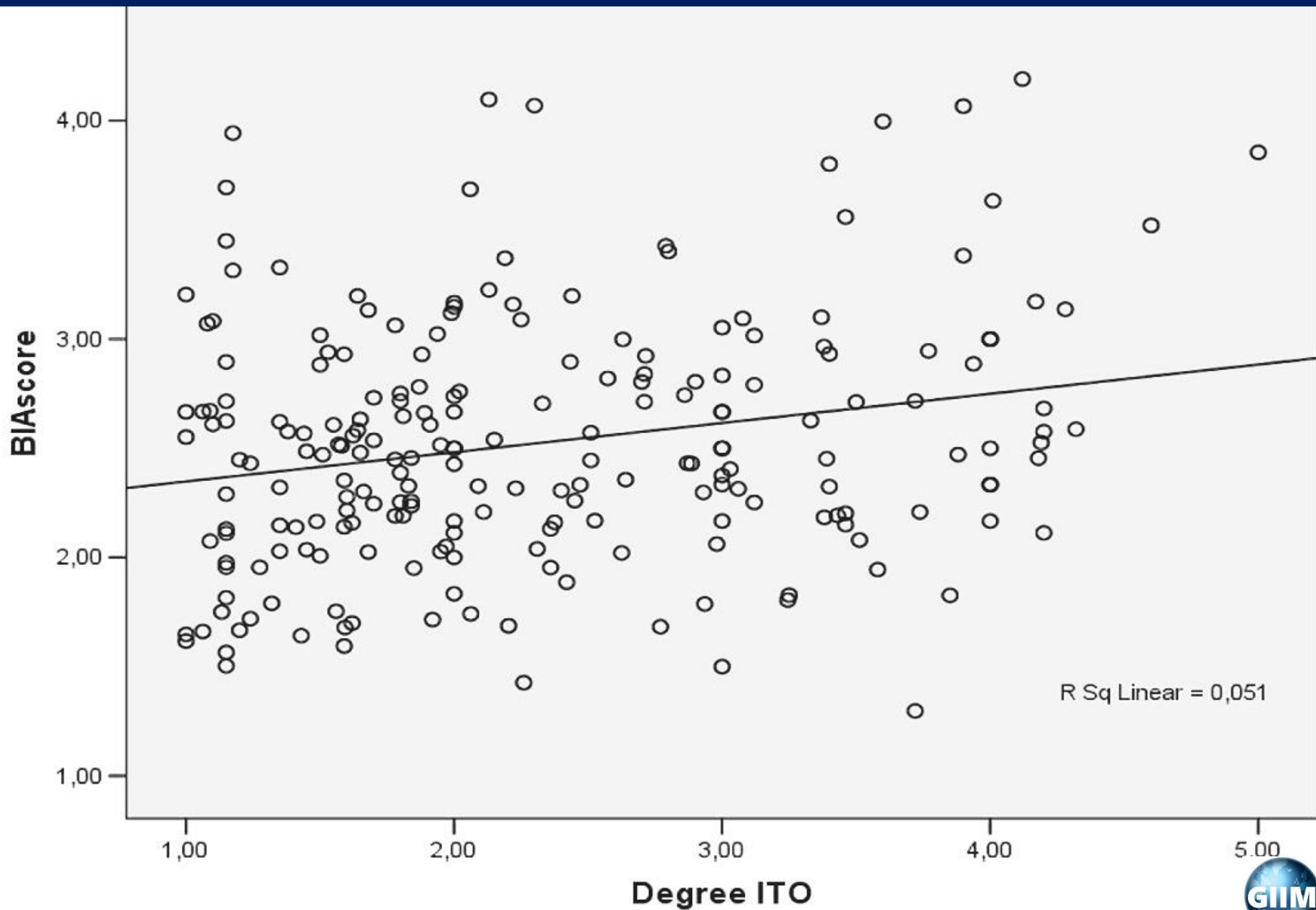
Cobit & Business-IT Alignment



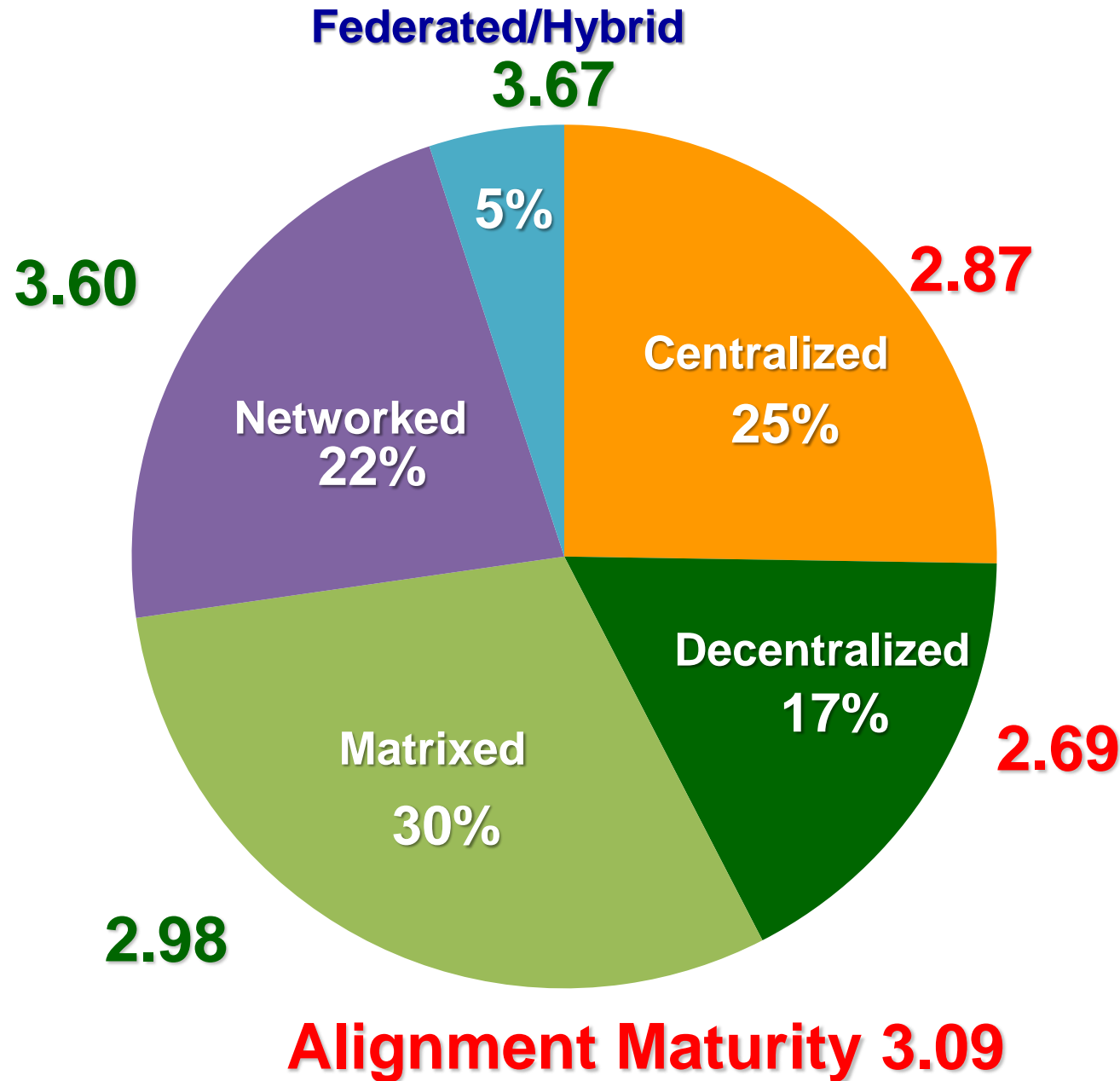
Ref: "IT Executives' Perception of CobiT: Satisfaction, Business-IT Alignment and Benefits" by Mauricio Marrone, Lukas Homann and Lutz M. Kolbe (Proceedings of the Sixteenth Americas Conference on Information Systems, Lima, Peru, August 12-15, 2010.)



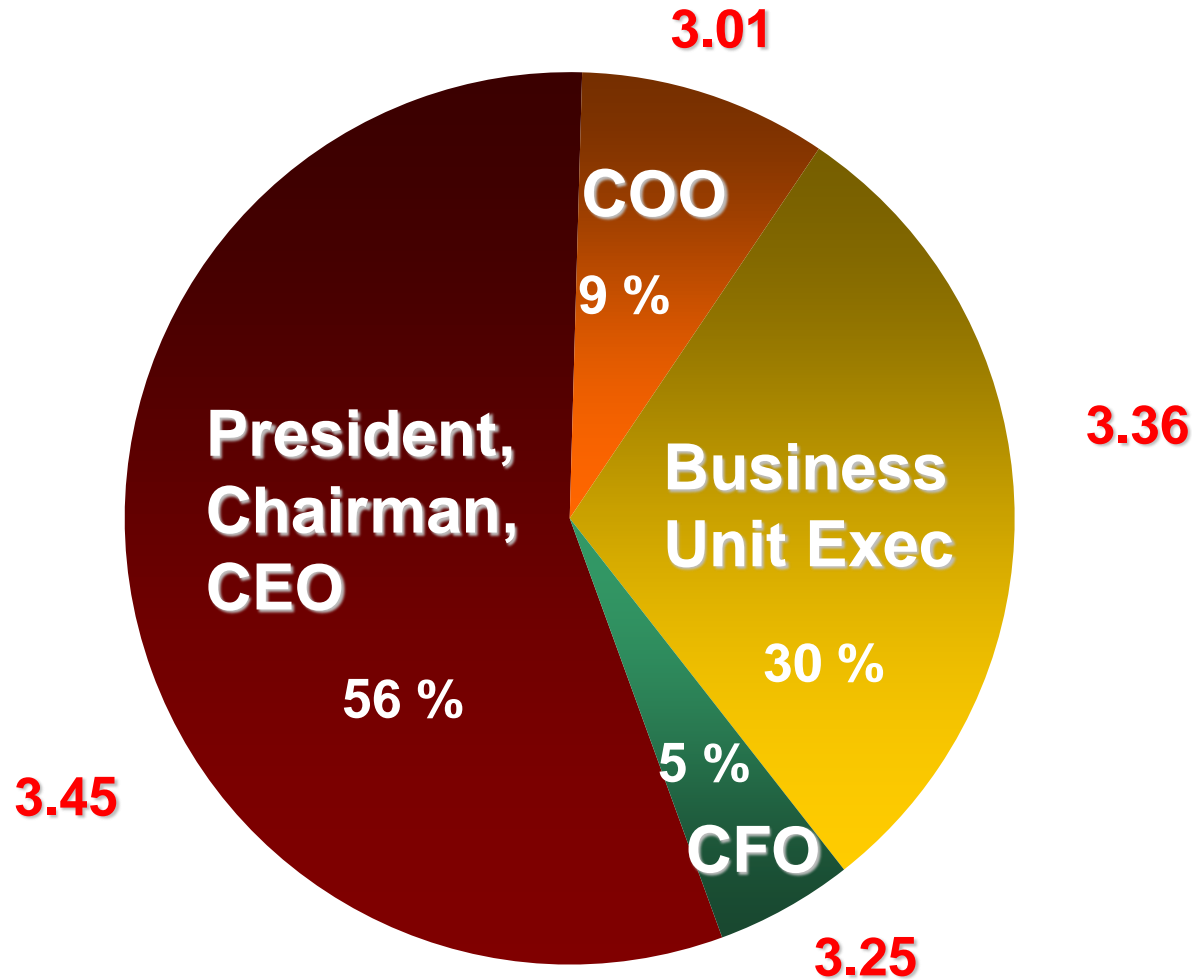
Outsourcing & Business-IT Alignment



Organization Structure



CIO Reporting Structure



Alignment Maturity 3.09

ORGANIZATIONAL REPORTING

Where should they report?

- CIO
- CTO
- Applications VP
- CISO
- CDO
- CAO



ALIGNING IT AND IT!





**Opens up the
door to improve
the relationship
of IT & Business!**

Service Provider

Innovator



*Co Adapt with
Customers
Clients*

STRATEGIC PARTNER

What's Needed

What's Possible



*Run the
Business
(Back Office)*

How

What



Optimize IT, Supplier



*Grow the
Business
(Front Office)*



*Transform the
Business*

**EVOLVING ROLE
OF THE CIO**

Enabler → Driver

of Revenue



Strategy



Plan

Digital Transformation: How Strategic Advances in IT are Changing Every Business

1. What are the strategic IT challenges that IT & non-IT executives must understand?
2. How can organizations prepare for the transformation being enabled/driven by IT
3. What are the emerging trends in the role of IT?
4. How can the pervasive/persistent alignment of business & IT be enriched?



**The next
move is
yours**

