

**Global Upskilling IT 2022** 

•••• Upskilling IT is a Professional and Organizational Imperative

**Eveline Oehrlich Chief Research Officer** 













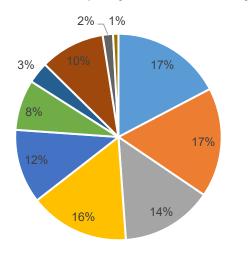
### **Demographics**

2,476 Global respondents

Over 58,000 data points

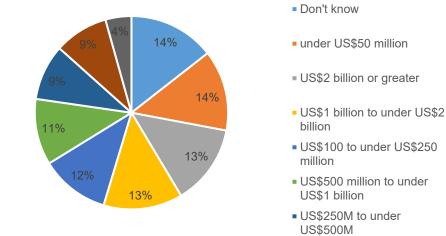
120 Countries participated 4 years running

### Company Size of Survey Respondents



- 2 to 99 employees
- 100 to 499 employees
- 500 to 999 employees
- 1,000 to 4,999 employees
- 5,000 to 9,999 employees
- 10,000 to 24,999
- 25,000 to 50,000 employees
- 50.000 or more
- Don't know
- N/A

### Company Revenue of Survey Respondents



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# **DevOps Institute IT Skill Framework: Capabilities**



Human Skills	This skill capability includes emotional intelligence, psychological safety, dynamic learning, transformational leadership, The Three Ways, happiness at work and diversity and inclusion.
Process and Framework Skills	This skill capability includes a variety of different frameworks and processes applied within IT organizations.
Automation Skills	This skill capability includes software engineering and support automation, the ability to understand process flow and the reengineering of tasks, processes and procedures with the goal to replace manual processes, tasks or events with automation.
Technical Skills	This skill capabilities includes a variety of technical skills in topics such as elastic infrastructure, containers, microservices, APIs, serverless, DevOps toolchains, open source and security management.

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# DevOps Institute IT Skill Framework: Capabilities (cont.)



Leadership Skills	This skill capability includes leading, coaching, guiding, decision making.
Business Skills	This skill capability includes business acumen, financial management, marketing, sales.
Cognitive Skills	This skill capability includes analytical capabilities, quantitative and statistical knowledge, statistics, data modeling, knowledge in Artificial Intelligence and Machine Learning.
Digital Skills	This skill capability includes digital fluency and a high level understanding of digital systems and requirements.

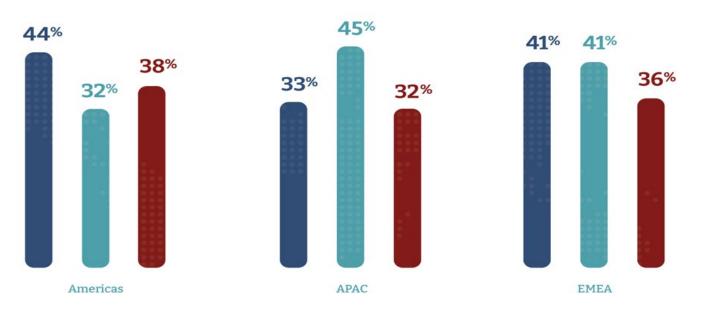
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# **Key Findings High Level**

- Insufficient IT resource skills are a huge challenge across the globe.
- Addressing technical debt must be paired with addressing talent debt.
- Upskilling is a professional and organizational imperative.

# **Top Three Challenges For IT Organizations Today**

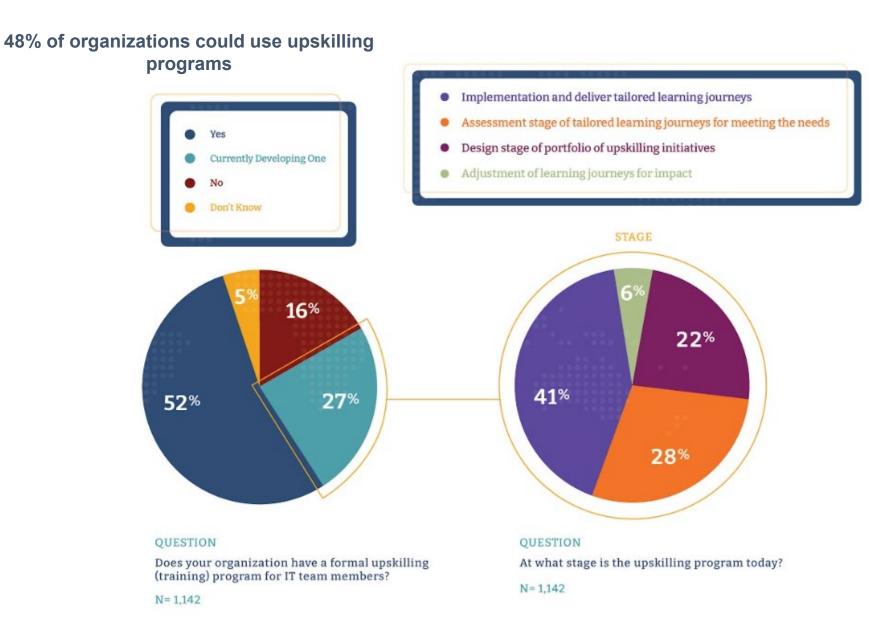




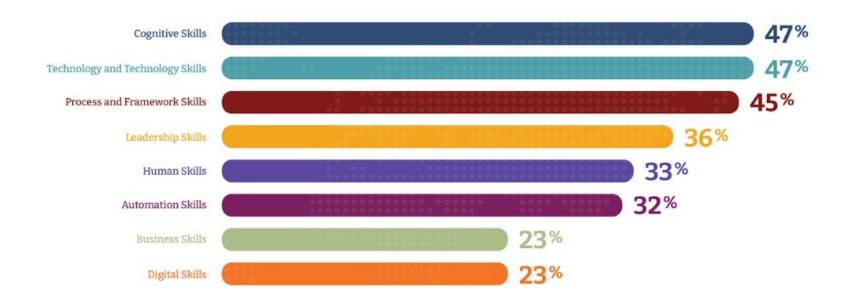
#### QUESTION

What are the TOP THREE challenges your enterprise IT organization is currently facing?

# **Opportunities for Upskilling in 2022**



### The Biggest Skill Gaps: Cognitive, Technoloy and Process and Framework Skills



#### QUESTION

Recent research indicate skill shortages within IT enterprise organizations today and predict skill gaps in the future. In which of the following areas is your IT enterprise organization already experiencing skill gaps? (Select all that apply)

## **Top 5 Must-Have IT Skill Capabilites**

### Essential IT Must-Have Skill Capabilities for IT Organizations

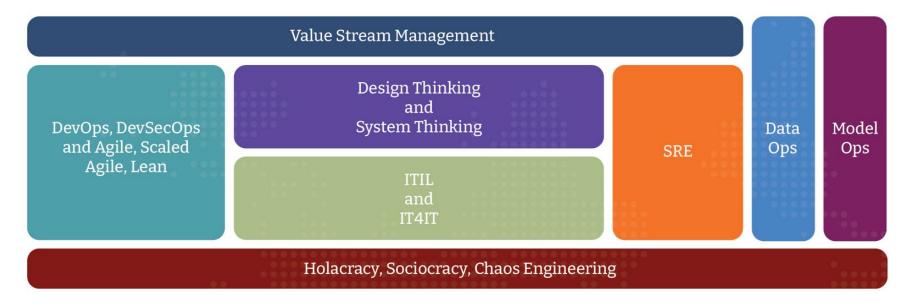


### QUESTION

How would you rate the importance of the following major skill categories for modern IT enterprise organizations in the future? (Select less important, important, critical)

### **Must-Have Process and Framework Skills**

Conceptual Model: The Must-Have Operating Models (aka Process and Frameworks) of the Future



### QUESTION

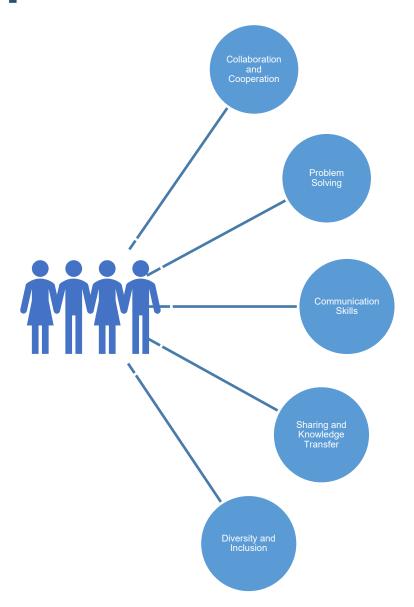
How would you rate the importance of the following operating models within the IT enterprise organization in the future? (Select less important, important, critical)

# **Top 5 Human Skill Gaps**

The Biggest Human Skill Gaps: Collaboration and Cooperation, Creativity and Entrepreneurship and Interpersonal Skills



# **Top 5 Must-Have Human Skills**



### Global Must-Have Human Skills Heat Map



#### OHESTION

How would you rate the importance of the following human skills within the IT enterprise organization in the future? (Select less important, important, critical)

N=1,547

## **Top 5 Must-Have Technical Skills**



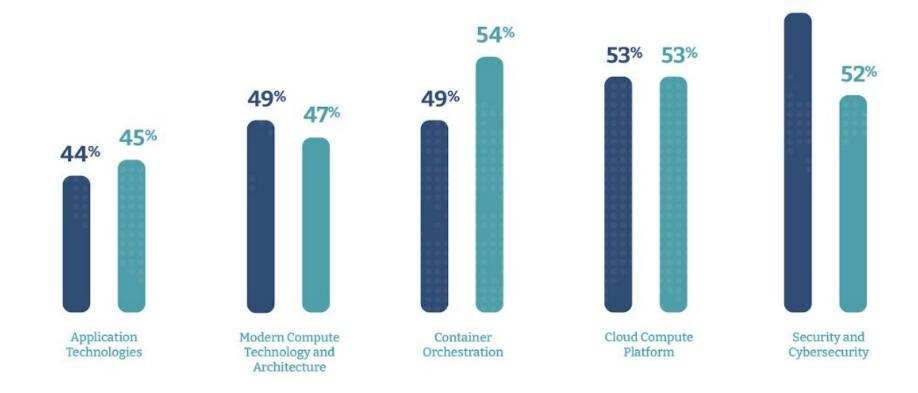
### QUESTION

How would you rate the importance of the following technical skills within the IT enterprise organization in the future? (Select less important, important, critical)

# Leaders and Individual Contributors Agree on Technical Skills



58%



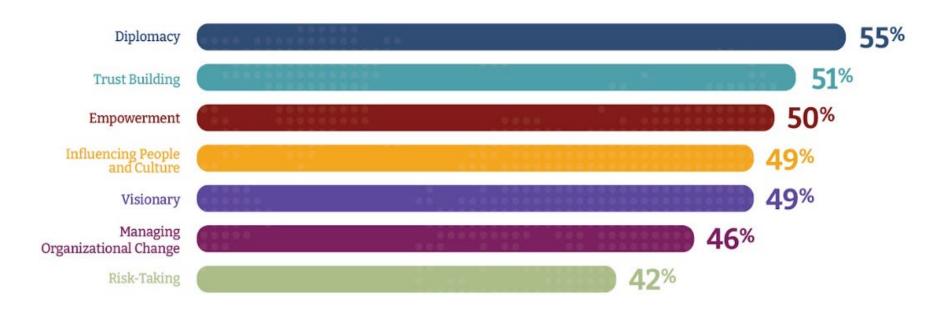
# **Top 5 Must-Have Automation Skills**



### QUESTION

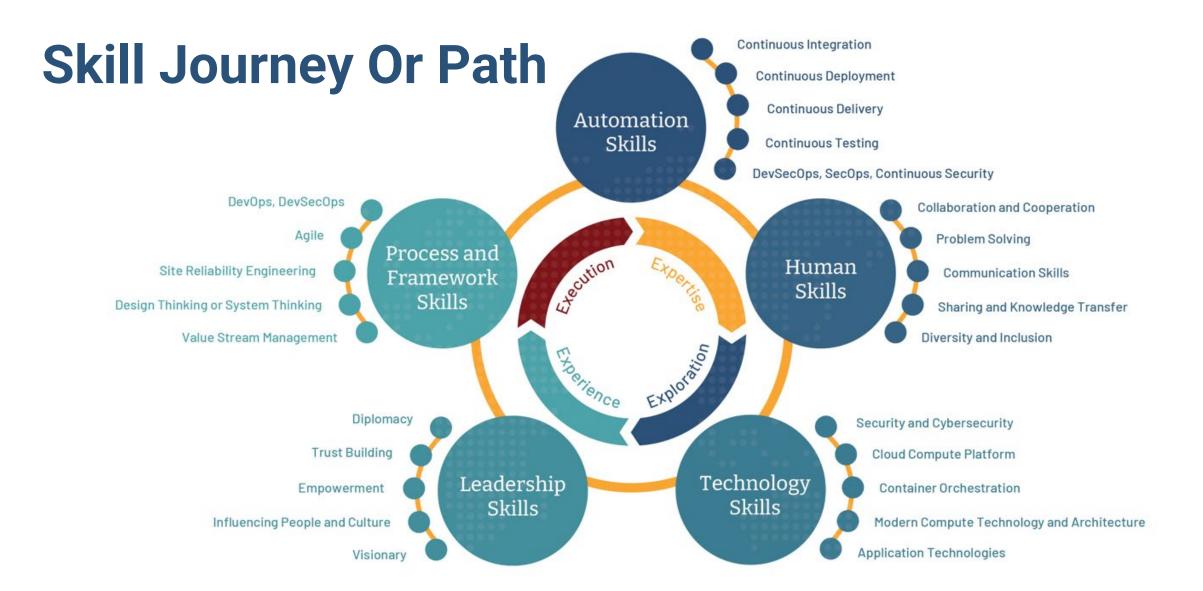
How would you rate the importance of being familiar with the following IT Automation tools within the IT enterprise organization in the future? (Select less important, important, critical)

# **Top Leadership Skills**



### QUESTION

How would you rate the importance of the following leadership skills within the IT enterprise organization in the future? (Select less important, important, critical)





Make the call:
Upskilling Is Essential Because...

1. IT leaders must manage both technical debt and talent debt.



2. IT organizations must enable individuals to continously learn and grow to stay competitive and retain key skills – hiring from externally is difficult.

3. Individual must own and manage their career intentionally, thoughtful, and for now and the future.

4. Leaders must extend their mindset from training towards continuous learning... which is more than just allocating budget...and partner with those who can assist.



Thank You.

Download GLOBAL, AMERICAS, APAC, EMEA Upskilling IT 2022 Report













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