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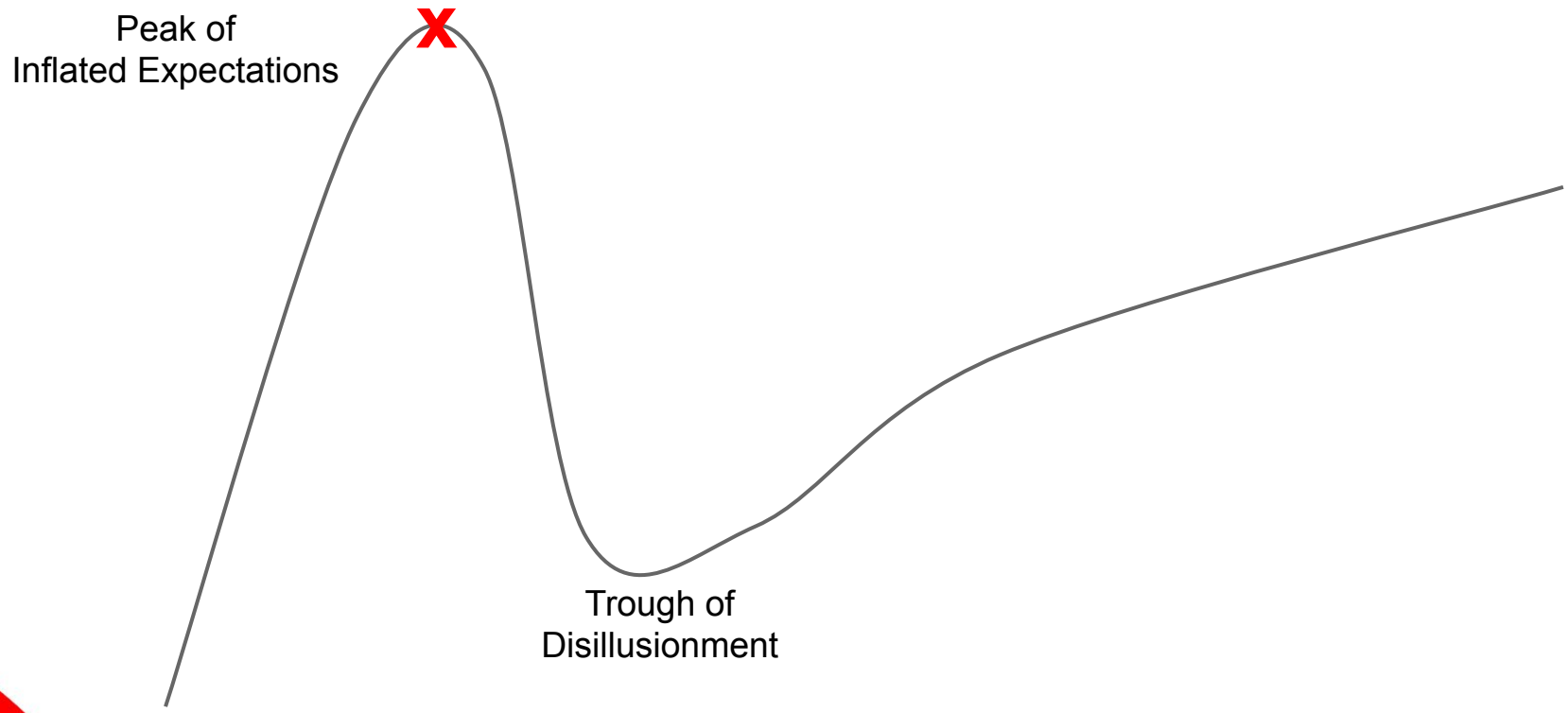
A story about compilers



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Nikolas Goulias

Senior Solution Architect
Global Accounts

Red Hat Summit

Hyper automation

The IT enabler addressing climate change

Nikolas Goulias
Senior Solutions Architect - Global Accounts

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Objective

Why sustainability is a **disruptive** force?

How can sustainability **become an opportunity**?

What is **hyper automation** and how can it be an IT enabler?

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SOURCE: INSEAD Executive Education

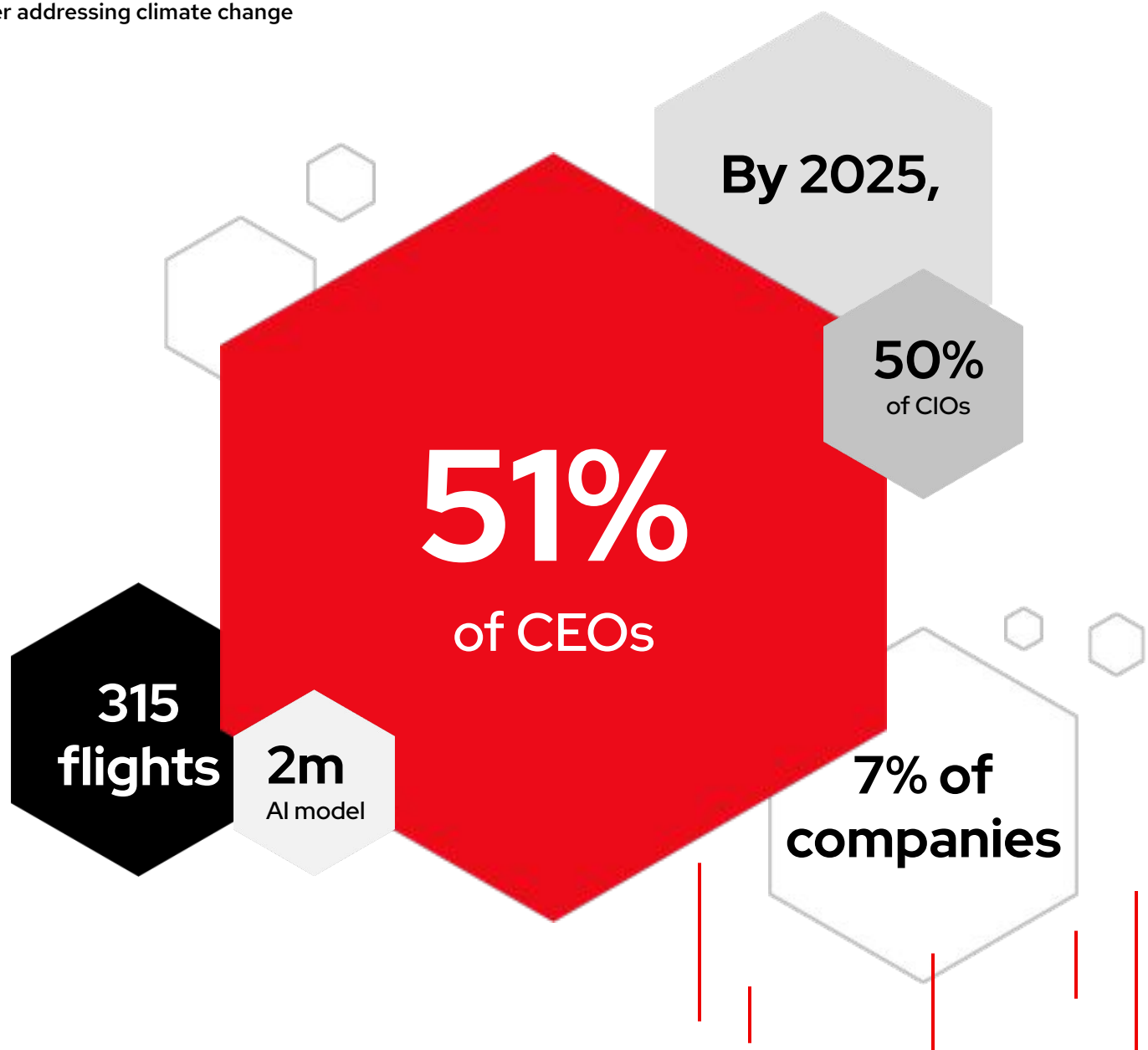
INSEAD lessons learnt from digital disruption

NOKIA

L'ORÉAL

HSBC

SOURCE: INSEAD Executive Education



SOURCE: Accenture "The Green Behind the Cloud" & Using Technology & Sustainability & IBM Institute of Business Value

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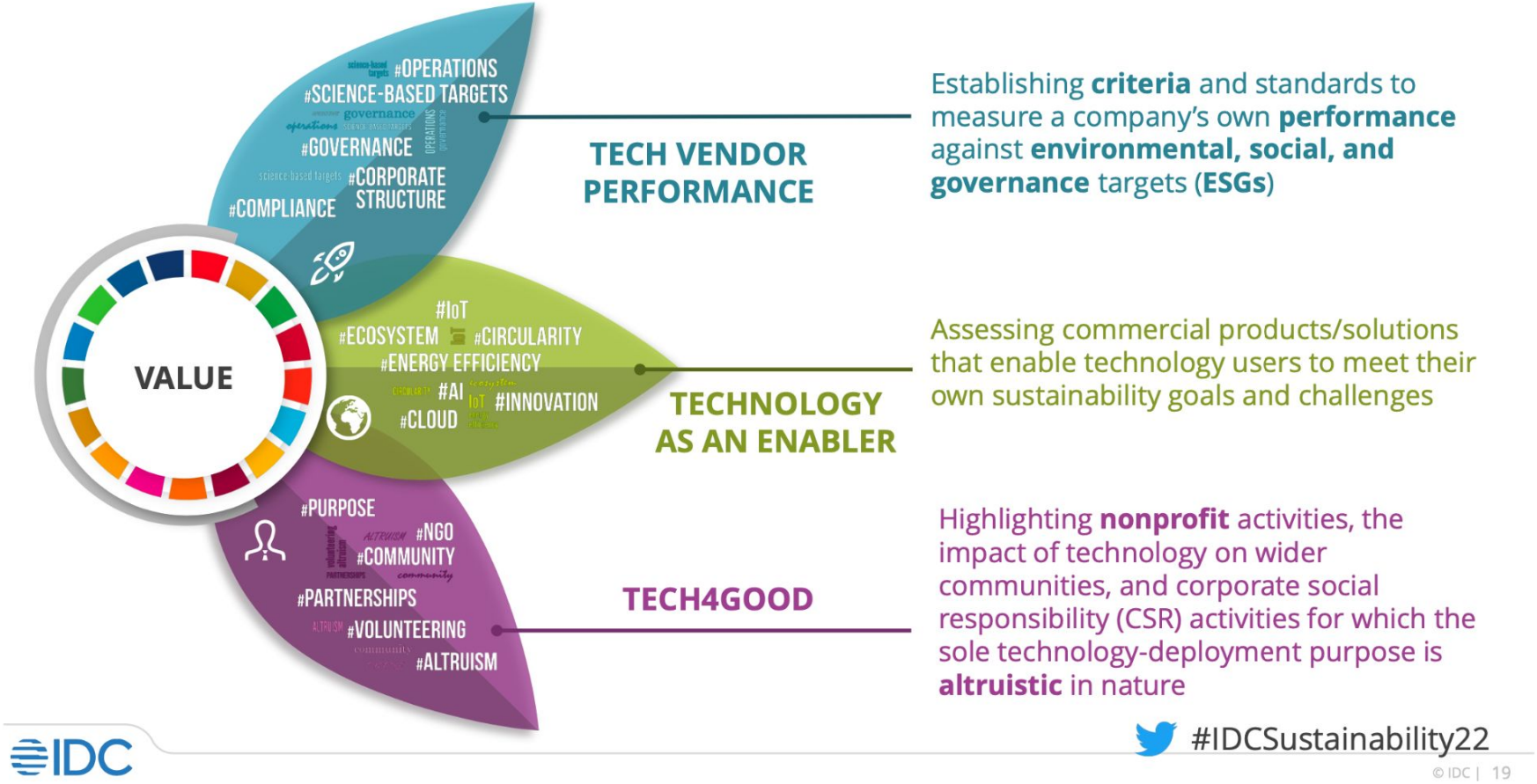
Sustainability and Technology Framework: ICT Industry Relevance



SOURCE: IDC Sustainability Dinner for ICT Industry, London 2022

Red Hat Sustains

SOURCE: Red Hat Announcement to Net Zero By 2030

*"**Hyper automation** is a business driven approach to identify, vet and automate as many business and IT processes as possible. IT's role is to provide the tools to allow fusion teams to sculpt the change."*

Gartner Top Strategic Technology Trends 2022

SOURCE: Gartner Top Strategic Technology Trends 2022

1. *"increase the energy efficiency of IT infrastructure*
2. *raise utilisation rates of shared resources*
3. *measure and track ESG across IT suppliers"*

Gartner Top Strategic Technology Trends 2023

SOURCE: Gartner Top Strategic Technology Trends 2023

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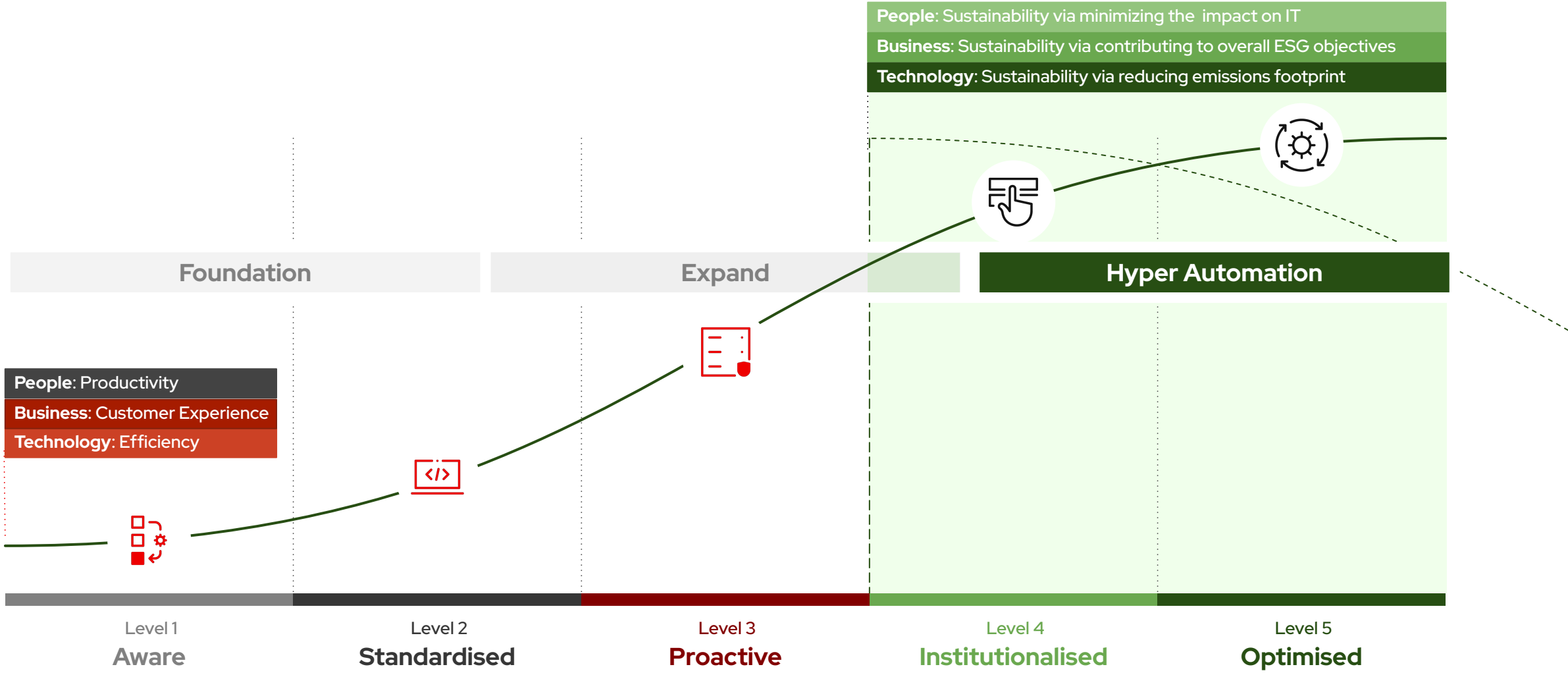
Achieving Hyper Automation



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Hyper Automation as an enabler

Three lenses to understand and address the complex problem

People

- Minimize the impact on IT
- Work effectively with less effort & time
- Balance ubiquitous governance & freedom

Applications

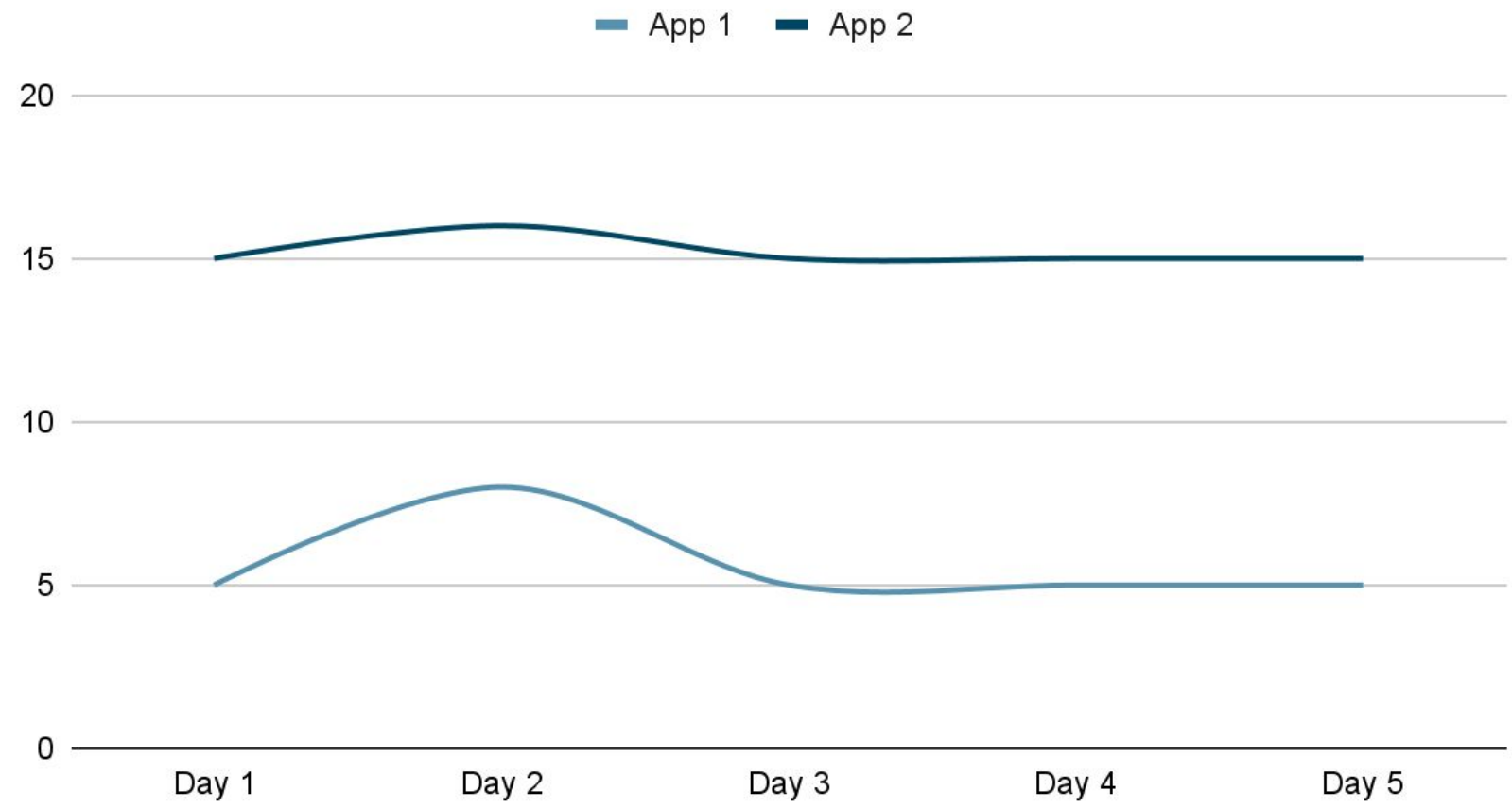
- Include ESG requirements in software development
- Champion Dev & GitOps practices
- Run apps when & for how long is needed

Journey to Cloud

- Automate the whole cloud journey & everything in between
- Optimize capacities & improve utilization via containers
- Consistently measure, track and govern ESG across footprints

People Scenario

Server administration
Network management
App management
Testing
Disaster recovery

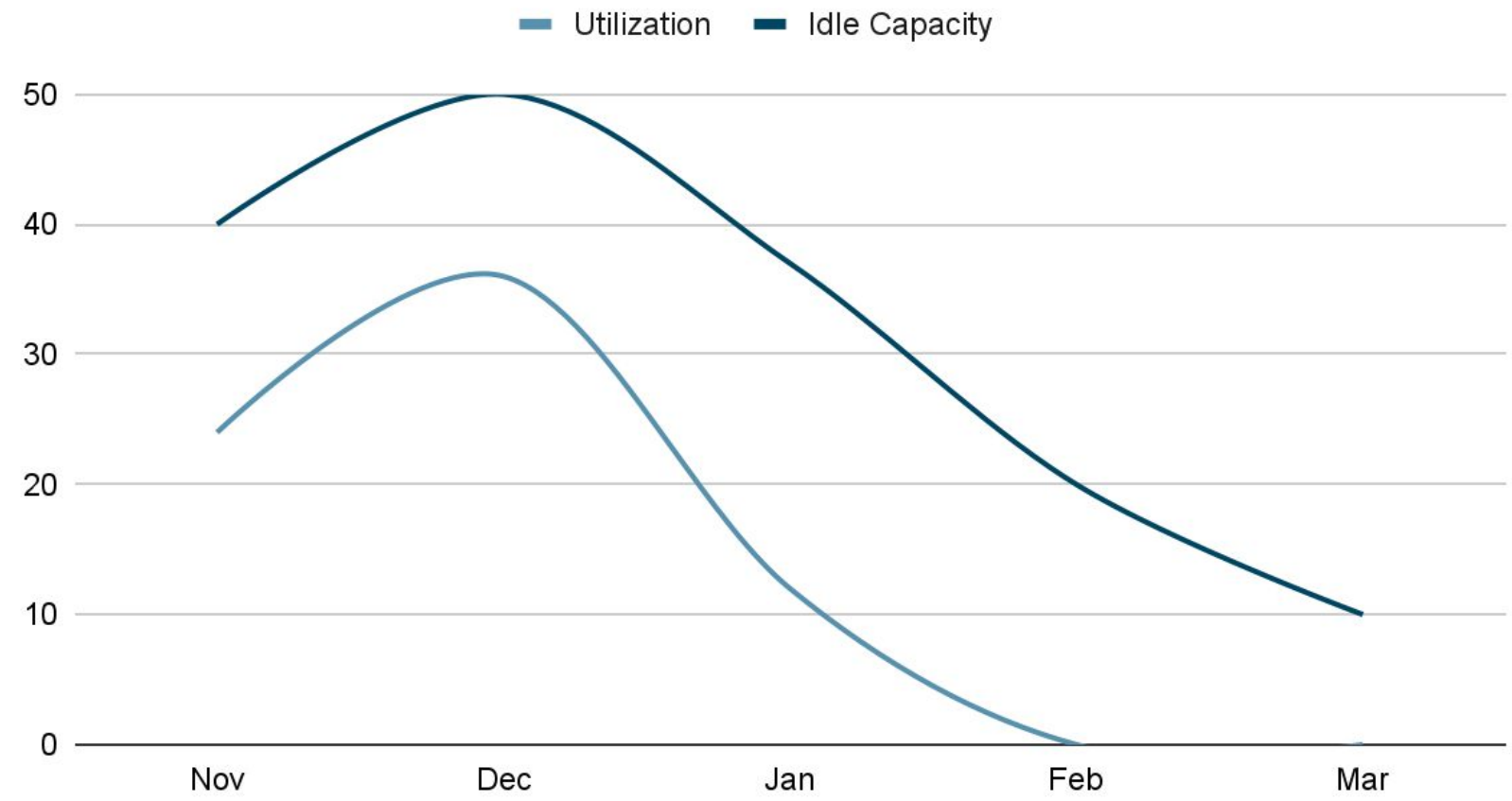


SOURCE: Red Hat Business Value CoP and Ansible Time Savings RoI

Applications Scenario

*Average idle capacity from **55%** to **32%***

Automated scaling
Spinning resources
Reacting to events
Serverless



SOURCE: Red Hat Business Value CoP and Ansible Time Savings RoI

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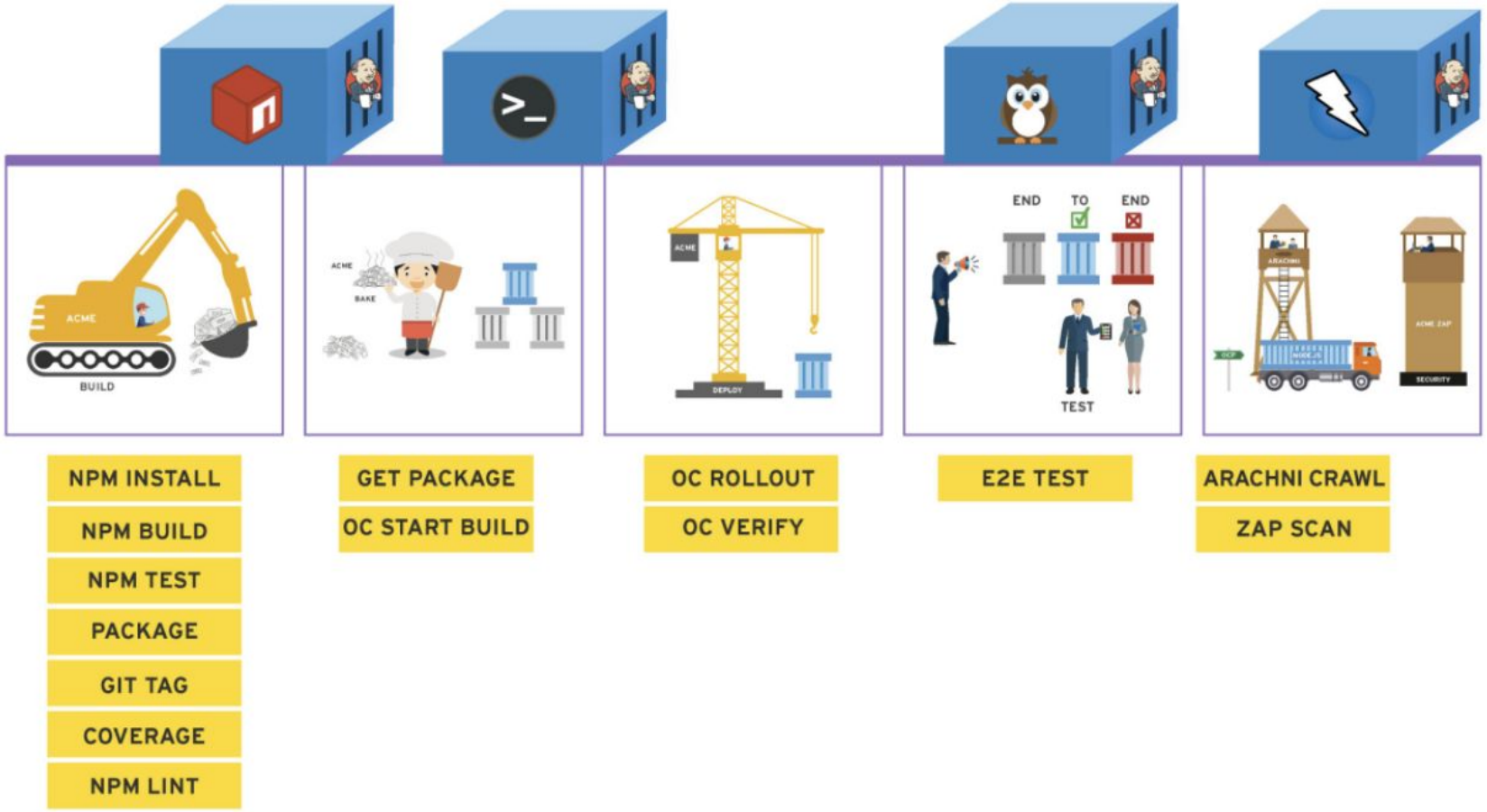
DevOps Scenario



SOURCE: The Big Picture

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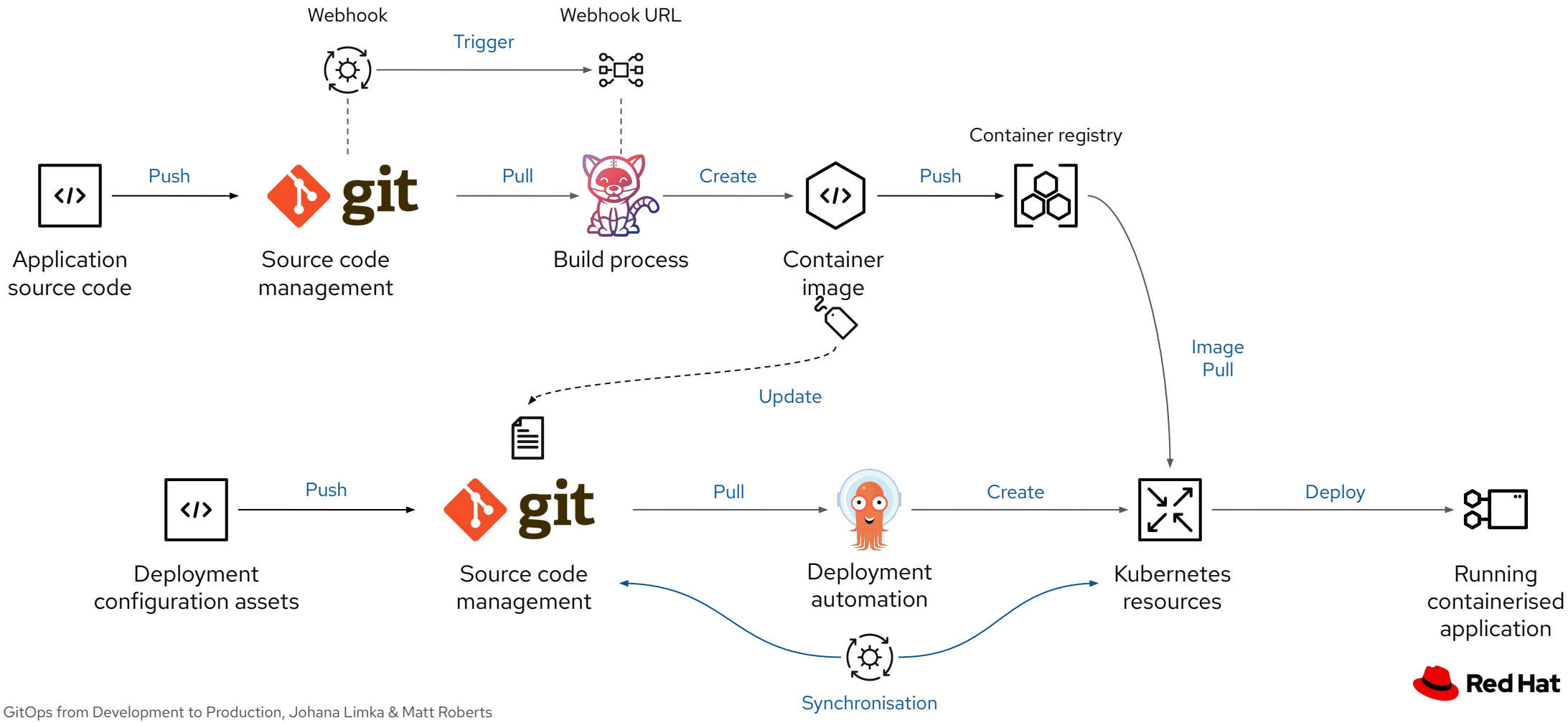
GitOps Scenario



SOURCE: GitOps from Development to Production, Johana Limka & Matt Roberts

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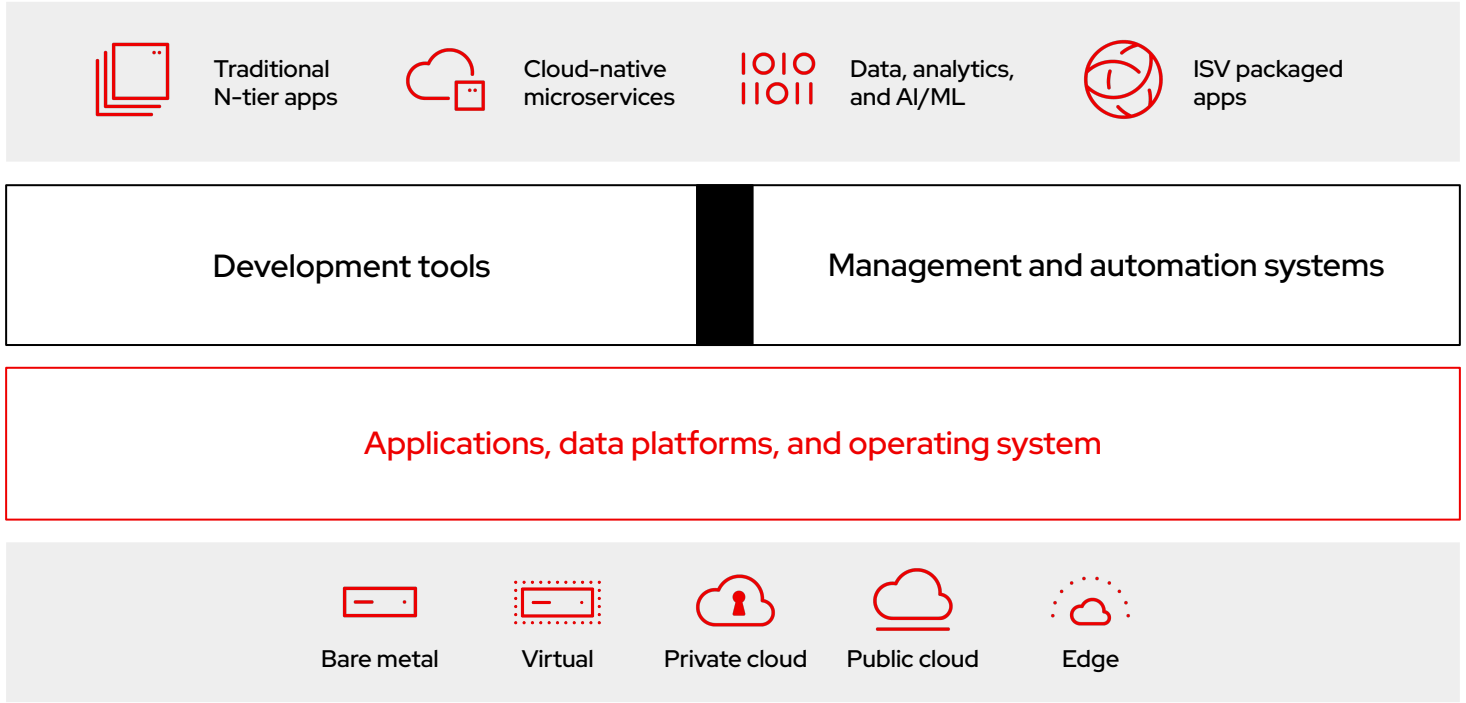
Journey to Cloud Scenario



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Key Takeaways

Sustainability is a **disruptive** force

Sustainability is also **an opportunity**

Hyper automation is an IT enabler addressing climate change via:

People, Applications, and Journey to Cloud

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Sustainability

*"~~**Compilers**~~ is the most difficult IT topic to work on, so please get all the help and brain power you can"*

Professor George Dimitriou

SOURCE: Professor George Dimitriou, University of Thessaly

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