



STKI's IT as a Service (ITaaS) initiative

For a while" is a phrase whose length can't be measured. At least by the person who's waiting.

— Haruki Murakami

STKI's IT as a Service (ITaaS) initiative



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What is IT as a Service?









IT as a Service Initiative destination

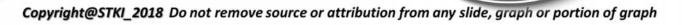
Why?

Current IT delivery is considered expensive, in-efficient, rigid, old fashioned and holding back the business

Gaining the adaptive ability to deliver IT at the speed of change



efficient, secure and responsive IT operations

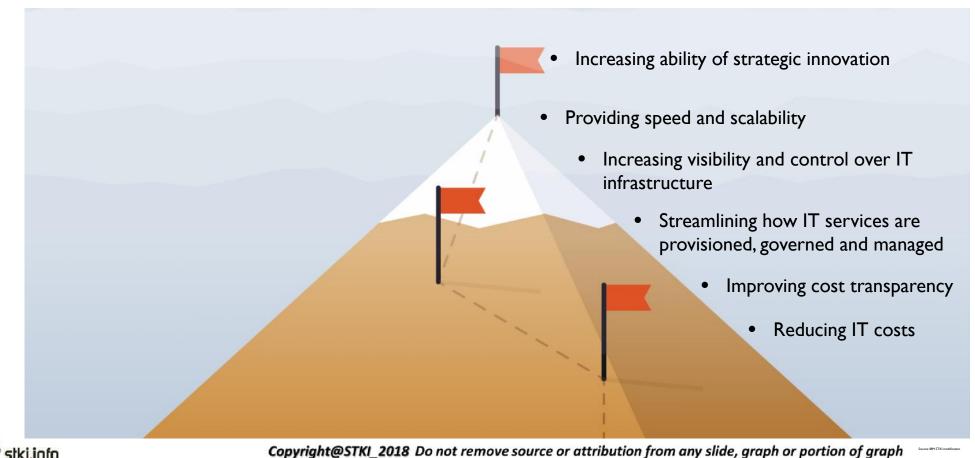






The core of ITaaS has not changed









So... What's different today than what we did for so many years?











We will provide concrete recommendations

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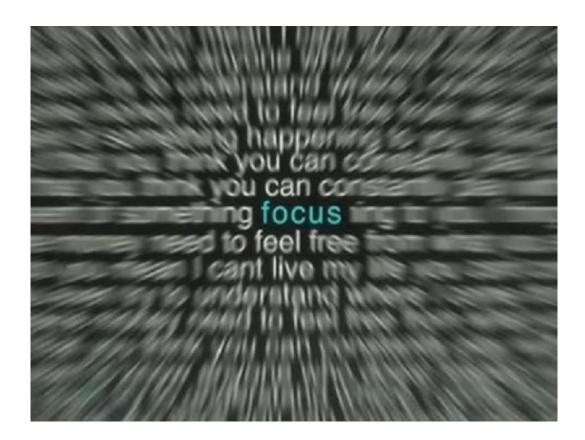






How can ITaaS become focused?

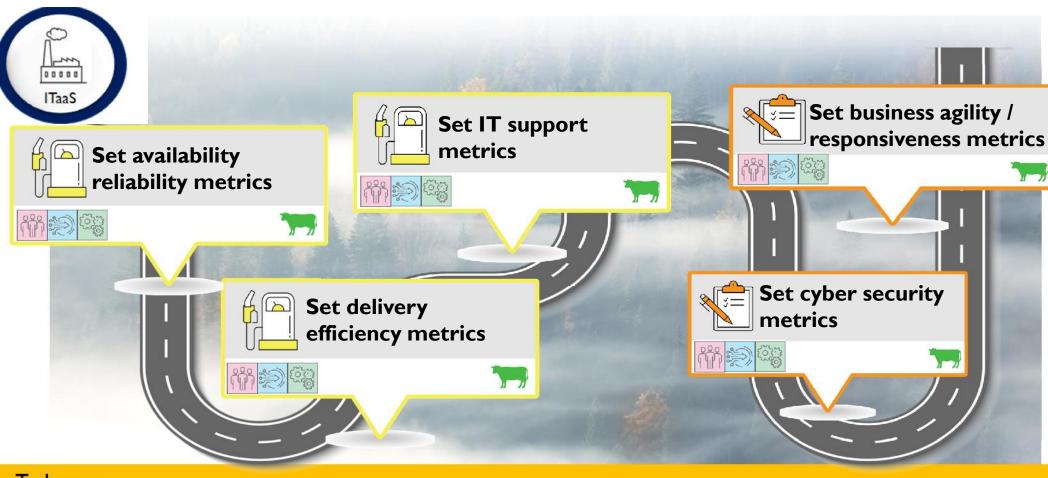
By setting up goals and establish metrics!!











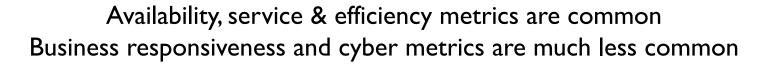
Trek name:

Define ITaaS goals and metrics / measurements

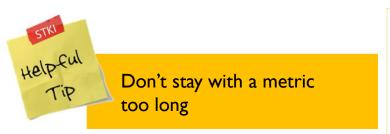




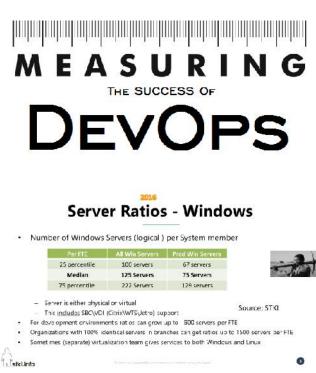














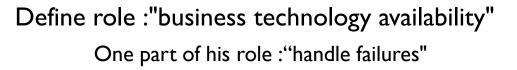
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goals &

neasurements















Measure availability objectively with user experience tools





Another important role: "change & maintenance manager"













The "business technology availability" person <u>iS</u> the "change & maintenance manager"





Only "availability minded gatekeeper" can improve ITaaS reliability











Measure productivity\quality

Measure ops (availability, etc...)



Measure cyber







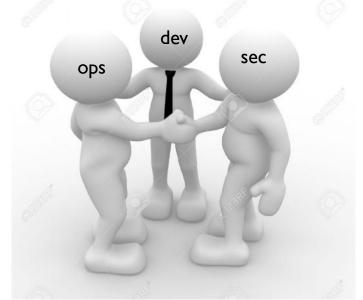




STKI's DevSecOps measurement manifesto:

Measure productivity\quality along with cyber

Measure ops <u>along</u> with cyber



Measure cyber









STKI's DevSecOps measurement manifesto:

Measure productivity\quality <u>along with</u> cyber & ops

Measure ops <u>along</u> with cyber & dev productivity

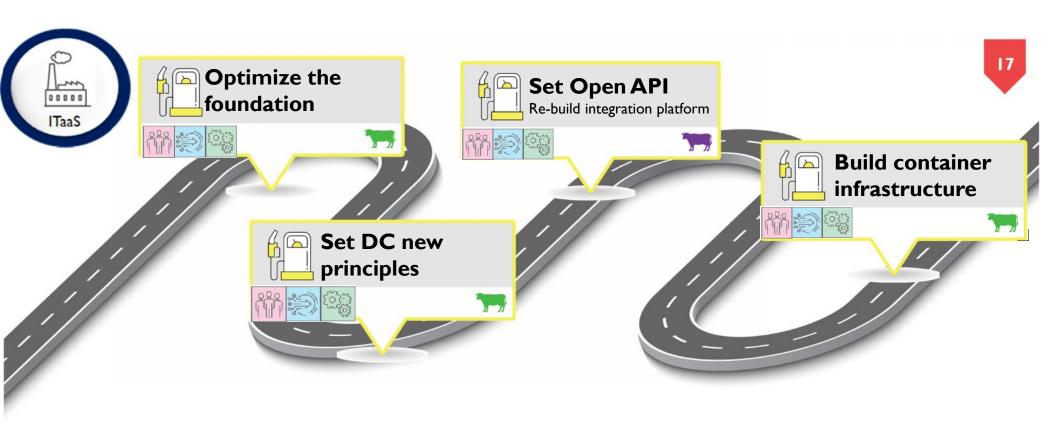


Measure cyber <u>along</u> with ops & dev productivity









Trek name:

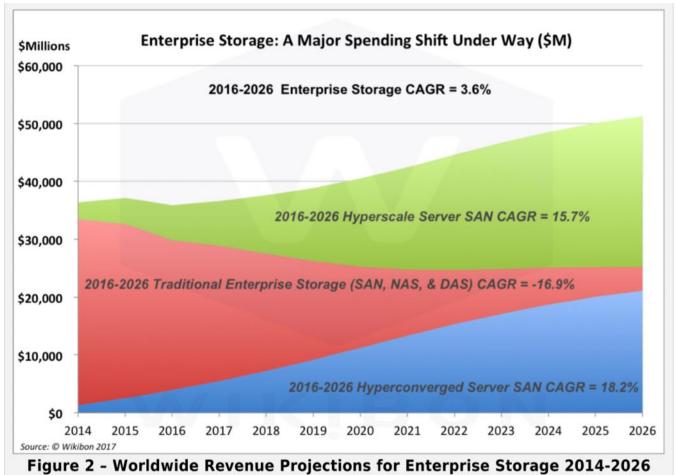
Build new Data Center





HCI – hyperconverged infrastructure





Source: wikibon





Figure 2 - Worldwide Revenue Projections for Enterprise Storage 2014-2026
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Source Wikibon 2017

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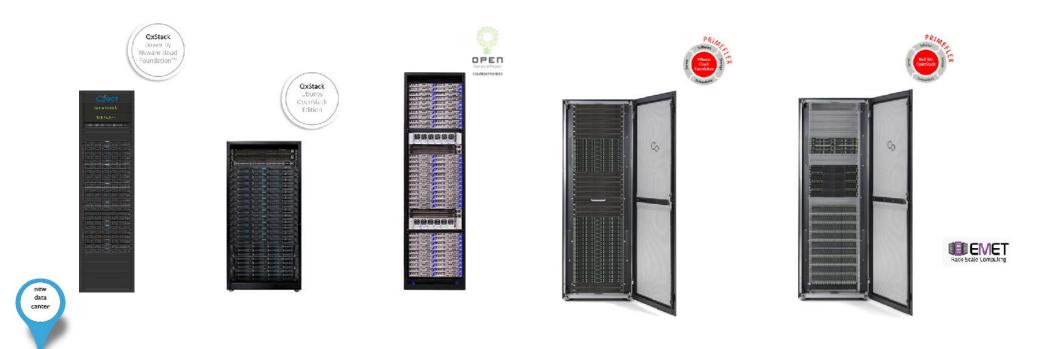




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Hyperscale infrastructure

Based on basic standard HW components setting up specific SW (sometimes opensource) configuration for large scale computing. Integrator & customer check if this specific server will work with this specific network HW \ opensource network OS, specific disks work with specific storage file system, etc.









- o Build new technology lab preferably on cloud
- Software defined based (programmable) technology
- Maximize open source business value
- Strive towards immutable infrastructure (servers)















Immutable infrastructure

In a traditional mutable server infrastructure, servers are continually updated and modified in place.

In immutable infrastructure servers are <u>never modified</u> after they're deployed. If something needs to be updated, fixed, or modified in any way <u>new servers</u> built with the appropriate changes are provisioned to replace the old ones.









Immutable infrastructure with Docker and containers

Pets vs. Cattle





The evolution of integration patterns

Microservices connectivity
Standard content definition Service Mesh
Open API standards

Standard content define Open API standard External partners

Cloud integration IPaaS\advanced ESB

External (specific API)
Internal integration API gateway
ESB

API management

developer portal





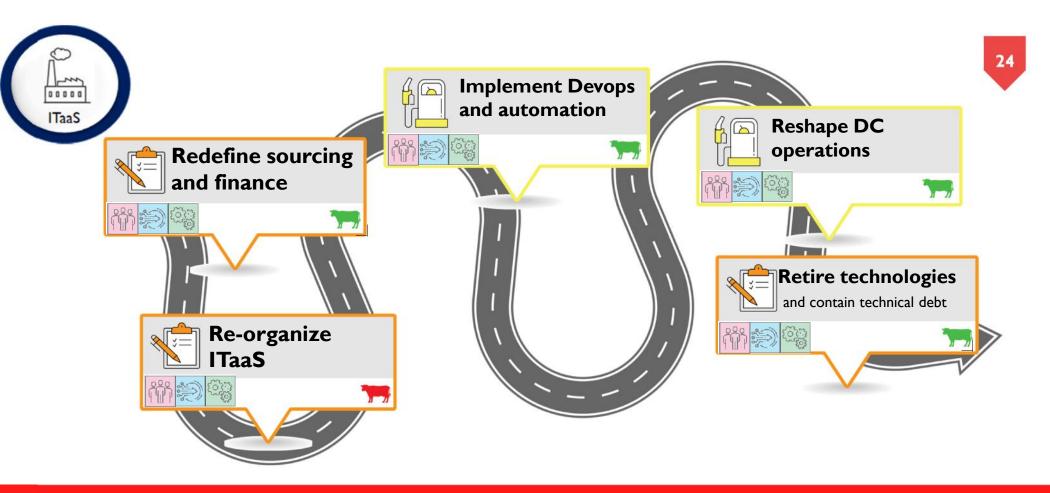
Will API management replace ESB?

It shouldn't – no oorchestration, no transformation, no adapters (tech and content), no messaging, no guarantee delivery, etc,

Still – green filed organizations (enterprises and startups) are not using ESB at all







Trek name:

ITaaS Operations, organization and processes





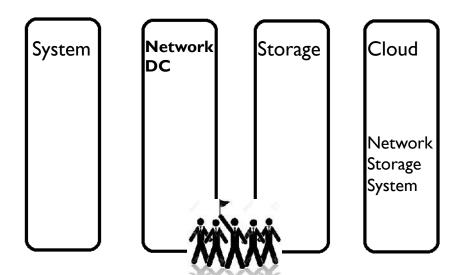


rganization

Re-organize ITaaS: new team for new technology\domain

 New dedicated team (for converged, cloud, devops, etc.), with skills differentiated, into the same department

Easy but BAD!!









Bad habits are like a comfortable bed, easy to get into, but hard to get out of.

(Anonymous)

izquotes.com





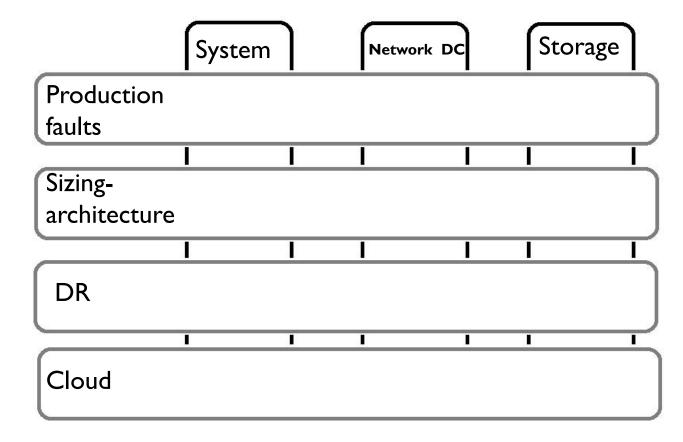




Re-organize ITaaS: combine old teams for delivering new technology\domain

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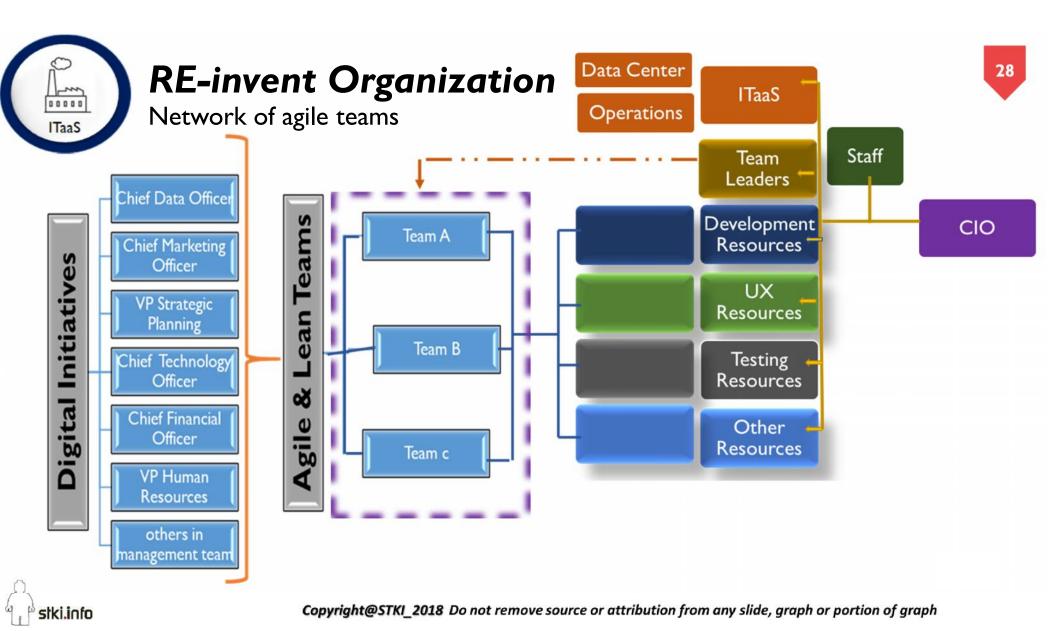
Challenging but GOOD!!











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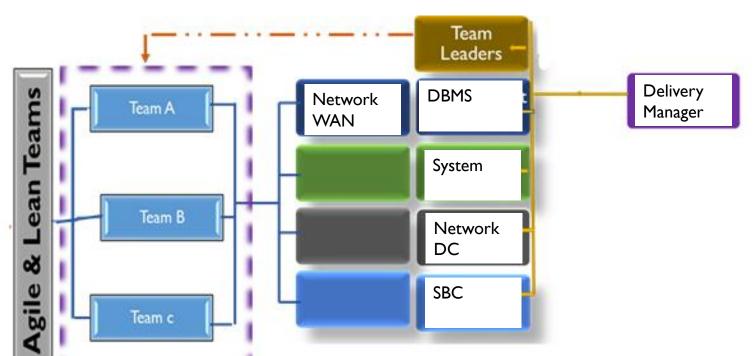
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RE-invent Organization: ITaaS

Network of agile teams















New organizations challenges



"I have many bosses"



network of agile teams (sharing knowledge)

learning and innovating

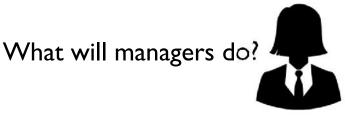
people "create followers" to grow in influence

lead by orchestration

culture of risk-taking

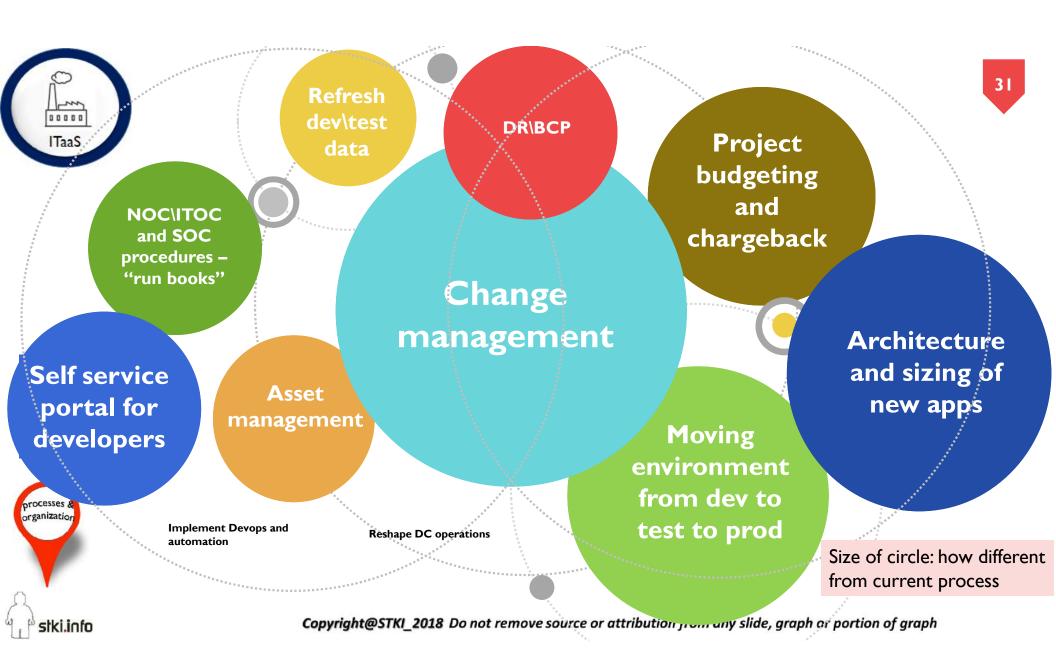
teams and responsibilities defined but roles and titles change regularly

project based











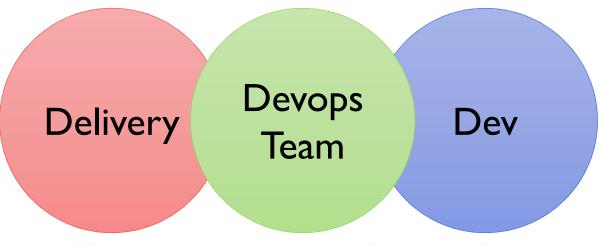


The CI/CD (devops) team

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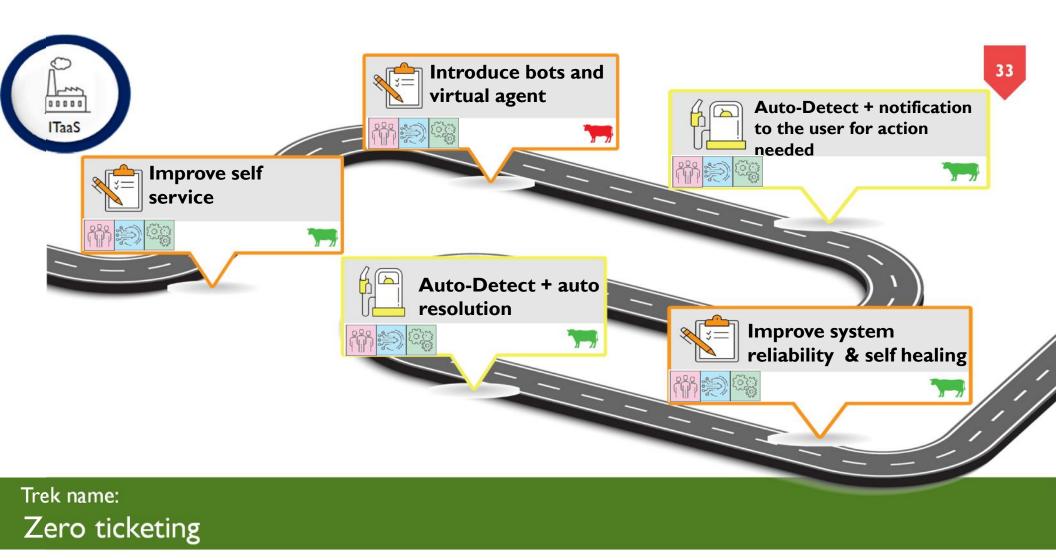
Helpful Tip

Use the existing team that builds/refreshes test environments as the foundation for CI\CD team



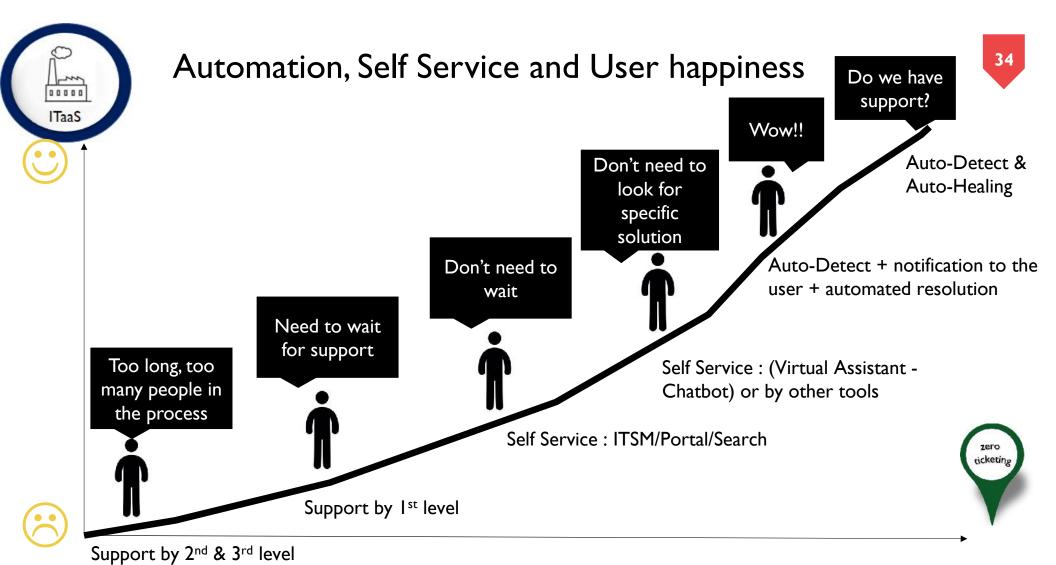








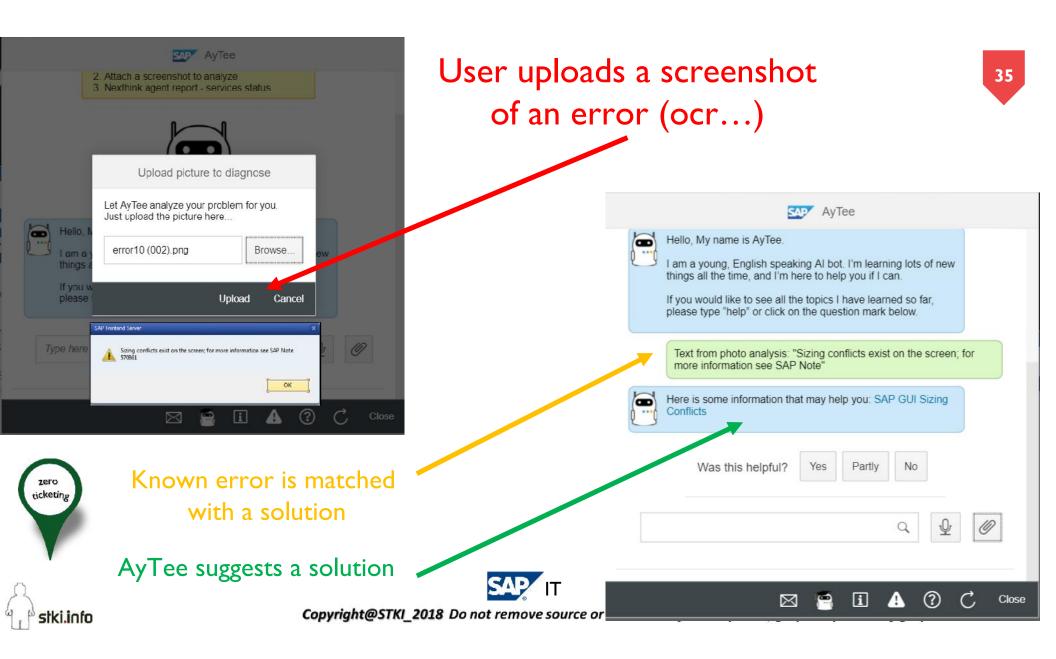








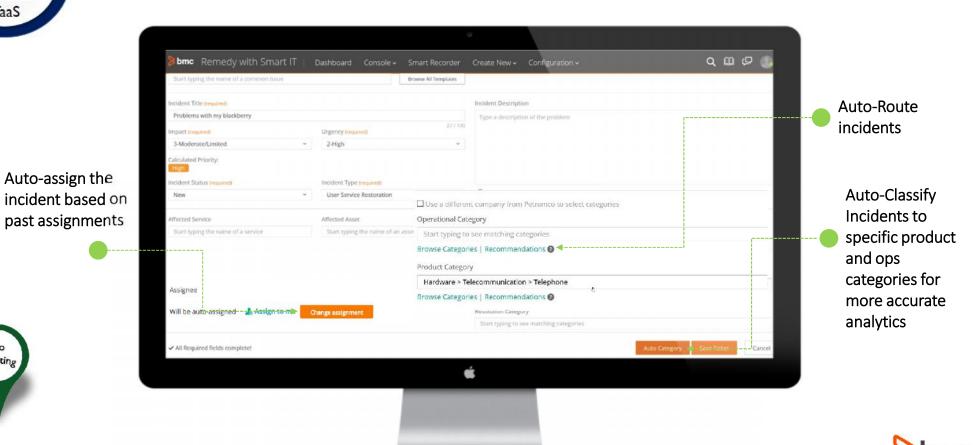






Auto-assign the

Remedy Powered By Cognitive







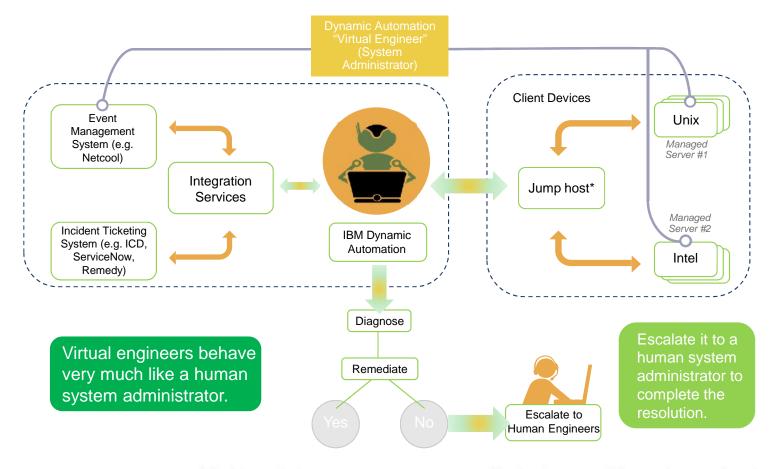
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Dynamic Automation integrates into existing ITSM tools to automate use cases on platforms, database, middleware apps, network, and storage







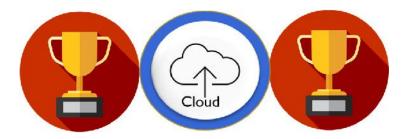


ticketing





Cloud technologies and processes are part of ITaaS practice enabling true hybrid cloud



Focused, reliable, efficient, secure and responsive to business needs

Zero ticketing

Supporting development



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