Capgenini In Collaboration with

GET THE FUTURE YOU WANT WITH OUR LARGE S/4HANA TRANSFORMATION **PROGRAM (LTP) METHOD**



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OPERATE THE RENEWABLE ENTERPRISE IN THE CONTEXT OF LTP



OB THE CONTINUOUS DELIVERY CHALLENEGES



CONTINUOUS DELIVERY TOOLCHAIN IN COLLABORATION WITH TRICENTIS



SITUATIONS TO WHICH WE NEED TO RESPOND



COMPANIES ARE UNDER GREATER PRESSURES TO RESPOND TO NEW CUSTOMER EXPECTATIONS, MARKET OPPORTUNITIES, EVOLVING INDUSTRY DYNAMICS AND NEW TECHNOLOGY DISRUPTIONS

WHAT DRIVES SAP CLIENTS TO TRANSFORM AND INNOVATE?



- Need to incorporate new technologies into business processes
- Ever-increasing focus on sustainability throughout Supply Chain
- Market demands for new digital business models and product as a service
- Sustainability

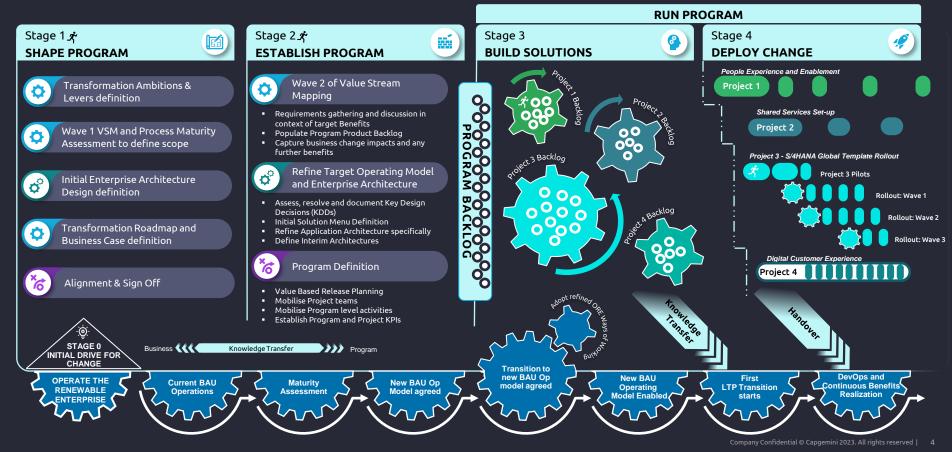


- Constantly changing customer demands
- Fast-paced unpredictable world (pandemic, climate, war, etc.)
- Company's internal processes not conducive to agile mode of business process delivery
- Clean Core
- Data Foundation modernization



- Increasingly complex IT infrastructure
- New technological advancements every year
- Multiple applications required per role per department
- Technical debts
- Cybersecurity concerns across multicloud landscapes

WE DELIVER SUSTAINABLE BUSINESS CHANGE THAT GENERATES BUSINESS VALUE



THE 10 **'MUST-HAVE'** INGREDIENTS FOR SUCCESS

01

Continued effort investment into creating transparency and trust amongst different communities in the organisation

- 02
 - Product based organizational structure



Common governance and ways of working



Start early and engage the business throughout



Appropriate contractual construct



Shared backlog of requirements linked to business benefits, KPIs and change impacts



Effective release, dependency and change management



Composable Architecture



Right skillset and mix of expertise



Right mix of tooling

MOVE FROM PROJECT CENTRIC TO PRODUCT CENTRIC DELIVERY MODEL FOR DEVOPS

Product

Manager

App

Development

App Mgmt

Service Mamt

Central Digital Service Mgmt

Architecture 🔳 🗖

Traditional

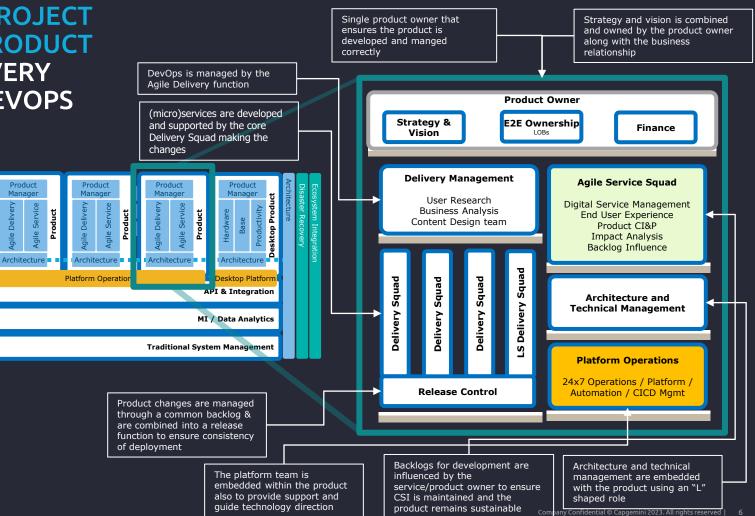
Hosting

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Delivery

Agile

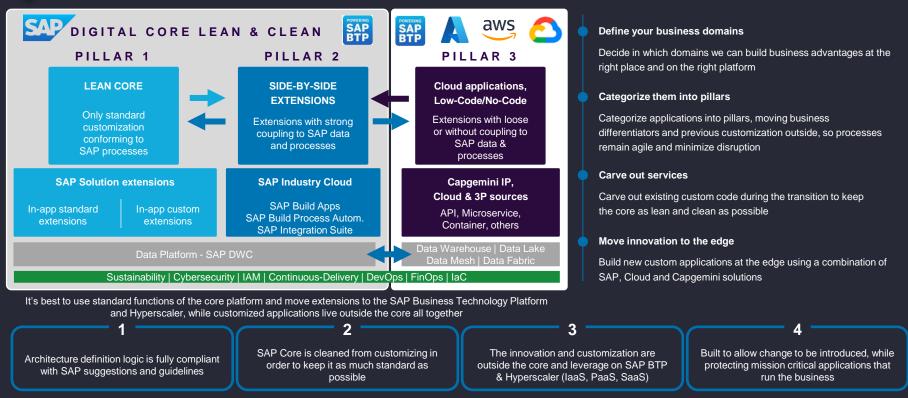


DEVOPS MATURITY MODEL - OVERVIEW

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	1 Initial	2 Defined	3 Managed	4 Measured	5 Optimised
DELIVERY ORGANISATION AND METHODOLOGY	Release scope poorly defined; subject to ad hoc change requests	Releases duration exceeds business need; releases face disruptive change	Release cadences well defined but exceeds business need; Requirements are stable;	Release on demand, multi-speed releases; time-box meets to business need (eg: monthly)	Small changes pushed through the pipeline ; Continuous deployment enables innovation
LEAN DELIVERY GOVERNANCE & PROCESSES	No defined or consistent applied delivery approach	Delivery approach is well defined, but largely manually governed	Industrialised project delivery; governance integrated into delivery and product management established	Blame free culture embedded in governance that uses real-time data rather than manual inputs	Continuous Delivery / Deployment supporting agile business change with automated governance
AUTOMATED RELEASE OF SOFTWARE	Mostly manual deployments	Some CIs automated, environment tailoring required, no enterprise tools	Fully automated Single-touch deployments into environments.	Functioning environments can be build from nothing programmatically.	Zero-touch zero- downtime deployments
CONTINUOUS INTEGRATION	No consistent use of version control – builds cannot be traced back to source code	Source code consistently managed in VCS; releases traceable to source	Developers integrate changes by checking into trunk on regular basis (daily)	Build is typically green – if build breaks developers do not make other changes until resolved	Build is typically green – if build breaks the CI tooling automatically reverses the failed change
CONTINUOUS DELIVERY (INCL AUTOMATED QA)	Fully manual test scripts	Testers run a harness / suite	Test harness / suite run automatically for some envs	Automated test suites enforce a quality gate	Tests run as functional monitoring
AUTOMATED OPERATIONS	No monitoring tools	Tools in place, but not configured beyond basic OS checks	Functional monitoring in place and DR is available	Environment and application health monitored and proactively managed	Service level monitoring (perf, usage) integrated with infrastructure and self-healing available
SW DEFINED INFRASTRUCTURE & CLOUD	Environments are managed ad-hoc without consistent blueprint	Environments follow standards but are manually created	Environments can be created automatically and follow common blueprint	SW defined infrastructure that closely resembles Production throughout SDLC	Utility based computing that leverages auto-scaling for several SDLC aspects
PLATFORM/ APPLICATION ARCHITECTURE	Big monolithic application architecture	Architecture based on platforms, business requires IT for every change	Resilient Architecture minimising single point of failures	Modular and scalable architecture, that allows for some business self service configuration	Microservice based architecture supported by end-to-end ownership in teams

OUR MPSA AGILE ARCHITECTURE FITS CLEAN CORE APPROACH

Other than leveraging on SAP Packages, the proposed architectural approach allows to leverage on a fully extensible and customizable technology platform. We foresee to adopt our Capgemini's approach called Multi-pillar Architecture (MPSA)



WHY CLIENTS NEED CONTINUOUS DELIVERY?

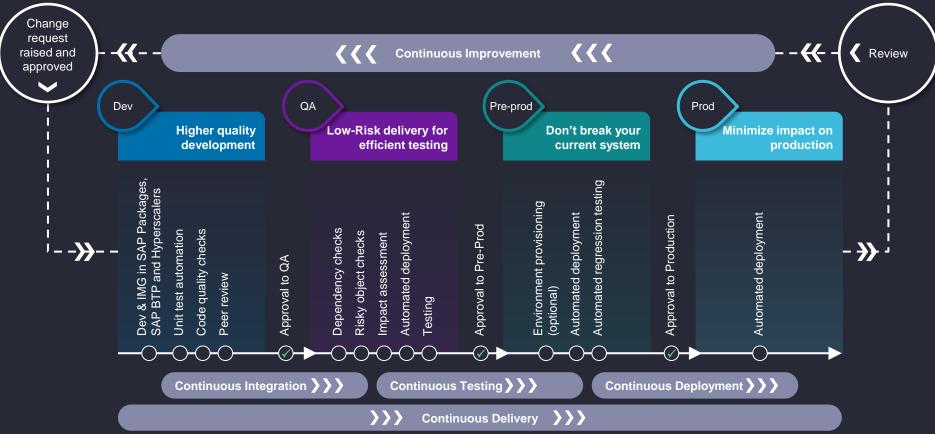


WHAT ARE THE CHALLENGES TO ACHIEVING CONTINUOUS DELIVERY?



CAPGEMINI CONTINUOUS DELIVERY

THE SAP DEVOPS DEVELOPMENT LIFECYCLES

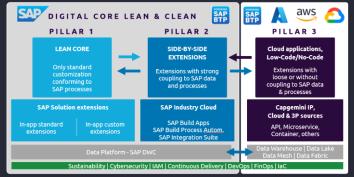


CAPGEMINI CONTINUOUS DELIVERY DEVOPS TOOLCHAIN IN LINE WITH MPSA APPROACH



Bring-Your-Own-DevOps toolchain is the approach we prefer, having continuity on what Clients already have on Hyperscaler perimeter (MPSA Pillar-3)

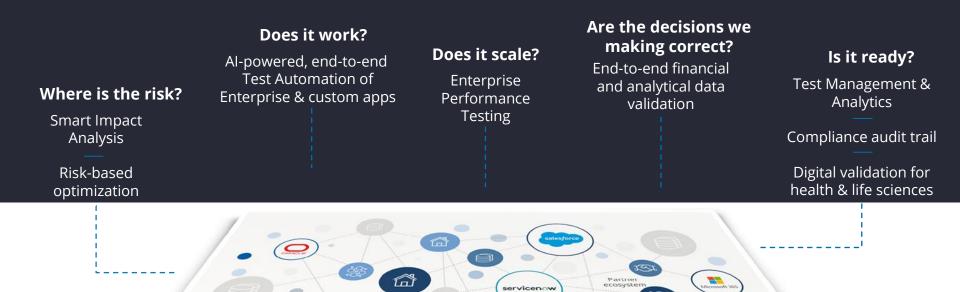
Reusing toolchain and skills is the right approach to extend CI/CD on SAP perimeter, complementing toolchain and pipelines with SAP needs on SAP Netweaver (MPSA Pillar-1) and SAP BTP (MPSA Pillar-2)



A COMMON APPROACH BETWEEN THE THREE PILLARS

Azure DevOps, AWS DevOps, Project Piper, others tailored approach can support on building a proper toolchain and pipelines according the landing zone

SAFEGUARD CONTINUOUS DELIVERY HIGH-QUALITY APPLICATIONS FASTER AND WITH LOWER RISK



SAP

workday

Int

API

Safeguard Continuous Delivery



IT IS NOT EASY TO ACHIEVE... AND IT IS ALL POSSIBLE

FEELING OF UNCERTAINTY, CONFUSION AND NERVOUSNESS OF HOW COMPLICATED FOSTERING SAP DEVOPS IS



To get from here...

To here...



FEELING OF CONFIDENCE GROWTH. CAPABILITY IMPROVEMENT AND ENABLING ENVIRONMENT FOR SAP DEVOPS

YOU NEED TO:

Put in place the right mix of governance and tooling

Question whether your contractual arrangements support your goals

Ensure that Business and IT stakeholders are aligned around the change

Be prepared to make some mistakes at the beginning, "Fail faster to succeed sooner"

Be ready to encourage, sponsor and enable change in mindset, organisation and team skillsets

Remember that there is no simple answers to complex problems and there will always be room for further improvement



GET THE FUTURE YOU WANT