DevOps VALUE SCAN



Gold Cloud Platform Gold Data Analytics Silver Application Development Silver Data Platform

Agile Way of Working



Quote – The Phoenix Project Gene Kim, Kevin Bear & George Spafford "Your job as VP of IT Operations is to ensure the fast, predictable, and uninterrupted flow of **planned work** that delivers **value** to the **business** while minimizing the impact and disruptions of unplanned work, so you can provide stable, predictable, and secure IT service"

CHALLENGES

MOST AGILE TRANSFORMATIONS



Agile Transformation Fails



Drive the Change





Planned vs Unplanned Work



Quote – The Phoenix Project Gene Kim, Kevin Bear & George Spafford "Unplanned work is what prevents you

from doing it. Like matter and antimatter, in

the presence of **unplanned** work, all

planned work ignites with incandescent

fury, incinerating everything around it."

VALUE

The material or monetary worth of something

VALUE BASED PRICING

The IT budget is derived from the value created.

Value can be revenue (SaaS) or an IT system supporting a certain process with a relative budget.



Even for non IT companies there is an easy way to calculate the 'monetary worth'

By example based on benchmark reports



Source: Deloitte 2016–2017 Global CIO Survey, N=747.

Deloitte Insights | deloitte.com/insights

THE CONE OF UNCERTAINTY

Uncertainty on required effort is the biggest risk in IT projects.

The only way to manage IT projects successfully is to reduce uncertainty in a controlled way.

Funding based on continuous business case (=value) monitoring.



CONTINUOUS LEARNING

Way-of-working to support continuous learning (e.g. scrum)

Transparency on successes and failures



BUSINESS CASE UN-CERTAINTY



ORGANIZATION MODEL



DOING THE RIGHT THINGS (value)

Delivering the desired services knowing your customer wishes, with collaboration and engagement of important stakeholders in alignment with your business goals.

DOING THE THINGS RIGHT (quality)

Delivering high quality services while making it predictable and safe using Continues Integration & Continuous Delivery and Security & Quality Framework.

DOING THE THINGS FAST (time 2 market)

Efficient and optimized automated building processes, starting small and agile, while being able to overcome impediments fast and adjust quickly when necessary.



VALUE SCAN



DOING RIGHT THINGS



DOING RIGHT THINGS

	Business Case	Risk Mngt	AI	ProductMngt	Backlog	Years in operation
LEVEL	Prediction: System suggests measurements based on actuals and forecast	Optimized: Integrated risk management incl. Risk appetite, tolerances, KRIs and predictive analytics	Transformational: AI is part of business DNA	Mature Suite: Product management only based on quantitative analysis. R&D through acquisitions	User Voice	End of Live / Phase- out
level 4	Forecast: The business case reports are generated automatically and include a forecast based on actuals.	Managed Systematic: Integrated Risk Management including Qualitative and Quantitative analysis	Systemic: AI is pervasively used for digital process and chain transformation, and disruptive new digital business models	Scaled Product: Product management only based on quantitative analysis only	More business (new service)	> 2 years
LEVEL 3	Automated: The business case reports are generated automatically and can be reviewed anytime.	Top Down Repeatable: Systems in place to monitor critical risks	Operational: AI in production, creating value by process optimization or product / service innovations	Business Case Validated: Design and product management, add customer types and functionality	Improve business case	2 years
LEVEL 2	Periodically: There is a business case which is being evaluated at least every year. Overview is created manually.	Initial Siloed: Repetitive qualitative risk analysis on every business case	Active: Al experimentation, mostly in a data science context	Product / Market Fit: Business model, value proposition, platform, functionality	Existing contract requirements	1 year
level 1	Initial: There is no financial business case or it has been made initially but not updated over time	AD-HOC: Manual risk analysis, no supporting systems in place	Awareness: Early Al interest with risk of overhyping	Startup: Research, design, product mngt and possibly some engineering	Laws and regulations	< 1 year

Priority vs capacity



Maturity Report



DOING THINGS FAST







DEVOPS MATURITY MODEL

	DevOps	Reporting	Testing	Provisioning	Deploying	Building
LEVEL 5 Complete	Operations and development are both part of the multidisciplinary delivery team and share responsibilities	Reports also provide trend analysis.	100% fully automated tests all the way to production	Self Service portal for requesting an environment.	Continuous end-to-end deployments	End-to-end automated gated builds.
LEVEL 4 Advanced	An envoy of operations works along in project, an envoy of development works along with operations.	Dashboard provides insight from different perspectives and shows history and progression through a build monitor to all	Automated dynamic quality tests like security scans, functional and performance tests guarantee quality of code.	Environment can be created and torn down by a push of the button. Operating System is virtualized.	Test-gated deployments of end-to-end applications. Deployments occur over multiple environments.	Central build environment. Teams actively reuse generic components in a secure and controlled manner.
LEVEL 3 Average	Development and operations work together when this is required	Graphical and textual reports accessible through dashboard.	Automated static code and security analysis after code check in.	Environments are identical. Several tools used to provision and configure an environment.	Environments are identical. Roll out of applications performed by a push of the button. Auto-deployment to DTAP.	Build on commit. Archived components are made available for reuse by other teams.
LEVEL 2 Beginner	Code accompanied with release notes with which operations should install and manage the application.	Reports generated on request by system administrator. Reports are graphical in nature.	Automated tests are initiated as soon as code is checked in. Tests are focused on unit/ component testing only.	Scripted installations per component for each server. Surrounding systems manually configured.	Self service deployments to development and test.	Automated builds are performed in a central area and activated manually.
LEVEL 1 Base	Operations engaged at the end of the project	Reports generated on request by system administrator. Reports are text based.	All tests require manual activity. Some tests are automated but have to be installed by hand.	Manual installation and configuration of software for middleware, databased, applications servers, etc.	Deployment through execution of separate deployment- and db scripts. Manual configurations and installs / env.	Builds are performed on local workstation by use of one or more separate build scripts.

DOING THINGS RIGHT





DOING THINGS RIGHT

SECURITY

	Scalability	Reliability	People	Process	Technology	Cost Control
LEVEL 5	Multi-tenant with load balancing and auto- scalability features to handle (peak) load (microservices)	0-1 prod incident / year	Culture supports continuous improvement to security skills, process, technology	Processes more comprehensively implemented, risk- based and quantitively understood	Controls more comprehensively implemented, automated and subject to continuous improvement	Pro-active automated advices to lower the costs per (micro) service
LEVEL 4	Multi-tenant with load balancing features to distribute load	2-3 prod incidents / year	Increased resources and awareness, clearly defined roles and responsibilities	Formal Infosec committees, verification and measurement processes	Controls monitored, measured for compliance, but uneven levels of automation	Regular cost savings are executed. Costs per operational unit are continuously going down.
LEVEL 3	Single instance for all clients, customizing through metadata	5-8 prod incidents / year	Some roles and responsibilities established	Organization wide processes and policies in place but minimal verification	More controls documented and developed, but over- reliant on individual efforts	Cost control is embedded in DevOps process
LEVEL 2	Separate application instance for each client but customizing available by changing settings	8-12 prod incidents / year	InfoSec leadership established, informal communication	Basic governance and risk management process / policies	Some controls in development with limited documentation	Cost for Resource Group and / or (Micro) Service are known but not linked to value streams / departments
level 1	Separate application instance for each client (monoliths)	> 12 production incidents / year	Activities unstaffed or uncoordinated	No formal security program in place	Activities unstaffed or uncoordinated	Cost for Resource Group and / or (Micro) Service are unknown



GET INSIGHTS NOW

OUR PROPOSAL

We start with identifying which change(s) will add the most value.

The outcome/insights gives us a prioritized roadmap which we execute together with IT and Business employees.

+/- 1 week

2 to 3 weeks

The IT Value scan is a combination of both quantitative and qualitative research leading to ensure legitimacy within the organisation

TEAM VALUE

C

DIGITAL BUSINESS HUMAN RESULTS

