RED HAT FORUM
Europe, Middle East & Africa

SIX Group

redhat.

FASCINATING NEXT GENERATION CONTAINER PLATFORM

DAVID BRUPBACHER

HEAD OF IT GLOBAL OPERATIONS

HAKA
SIX

TRADING
2000
TIMES FASTER THAN THE BLINK OF AN EYE

POST TRADING
THE STRONGHOLD FOR SECURITIES

FINANCIAL INFORMATION

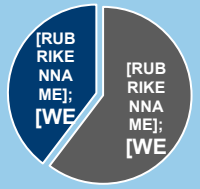
PAYMENT PROCESSIONG
99.998%
APPLICATION UP-TIME
THE IT THAT NEVER SLEEPS

32
ongoing DGI projects during 2016 with strong focus on IT infrastructure.

We operate worldwide
24 data center

5232
electronic workplace clients (desktop/laptop) are managed for the whole SIX worldwide

550
changes per month
are tracked, scheduled, monitored and executed



total of
5'800
inquiries to global service desk per month

Global IT employs more than
950 experts in **6** different countries

only **44%**
of total 2'700 server in the global zone are **virtualized**

2'700 TB
storage capacity
and **6'600 TB**
backup capacity

448 employees in **6** different countries

7
business continuity tests are executed per year with our major business units and applications

FASCINATING NEXT GENERATION
CONTAINER PLATFORM

HOW IT STARTED

INCREASE EFFICIENCY

TIME TO MARKET

NUMBER
OF ENVIRONMENTS

NUMBER
OF DEPLOYMENTS

DIGITALIZATION LESS OVERHEAD

MORE CONSOLIDATION
MORE AGILITY

2015

WE STARTED A DEVOPS MOVEMENT

WE STARTED A MOVEMENT TO CONVERT ALL 700 ENGINEERS AND OPERATORS INTO A DEVOPS ORGANIZATION.

WE CREATED A VISION

WE LOVE TO DELIVER YESTERDAY WHAT IMPRESSES OUR CUSTOMERS TOMORROW.

WE WEAR OUR SHIRTS

☞ **IT'S ALL ABOUT MINDSET AND ATTITUDE!**

WE DEFINED OUR PRINCIPLES

- We collaborate in cross functional teams and help each other to improve
- Teams take ownership for their products over the whole lifecycle
- We automate repetitive tasks wherever possible
- We have working software on every stage any time, incl. monitoring
- We do software-architecture
- We use one repository
- We won't stop until we don't do anything anymore that we don't have to
- We inspire and motivate our colleagues
- We employ scalable infrastructure

SIX

THE 5+1 DIMENSIONS OF DEVOPS AT SIX

SKILLS

SPECIALIST

SPECIALISED GENERALIST

ORGANIZATION

FUNCTIONAL TEAMS

X-FUNCTIONAL TEAMS

ARCHITECTURE

MONOLITHIC/PACKAGED

SERVICES/API'S

MINDSET & ATTITUDE

PROCESS

MANUAL HAND-OFFS

CONTINUOUS DELIVERY

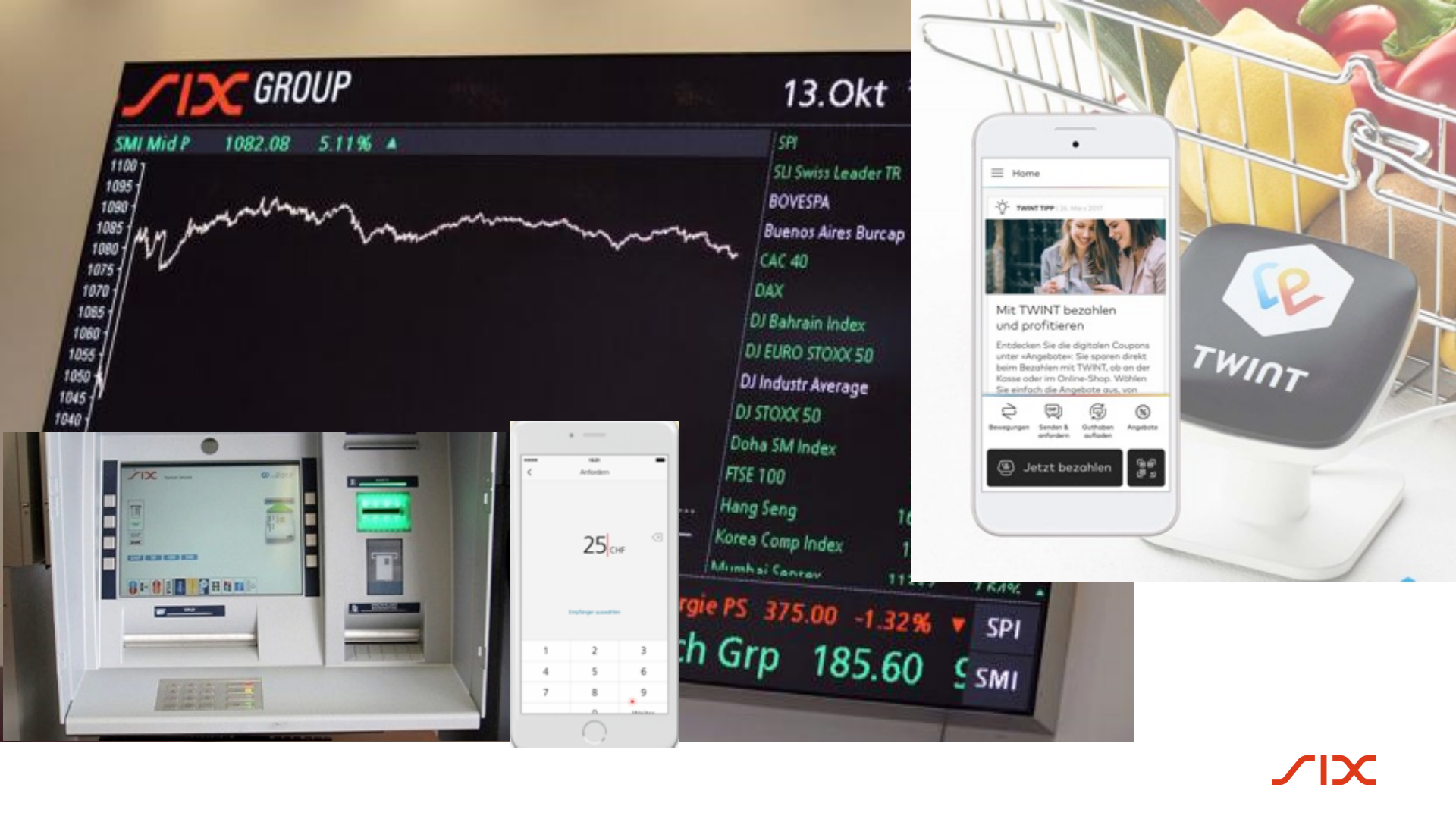
INFRASTRUCTURE

MANUAL PROVISIONING

AUTOMATED PROVISIONING

THE FUN PART

TODAY


SIX GROUP
13.Okt
SMI Mid P 1082.08 5.11%
SPI
SLI Swiss Leader TR
BOVESPA
Buenos Aires Burcap
CAC 40
DAX
DJ Bahrain Index
DJ EURO STOXX 50
DJ Industr Average
DJ STOXX 50
Doha SM Index
FTSE 100
Hang Seng
Korea Comp Index
25 CHF
Home
Mit TWINT bezahlen
und profitieren
Jetzt bezahlen
TWINT
SPI
SMI

Evolution

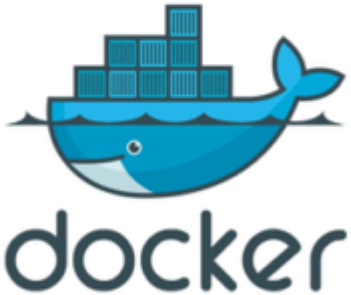
(nur Tonspur)

1980s -

HP NonStop platform

2014 - 2017

2016 -

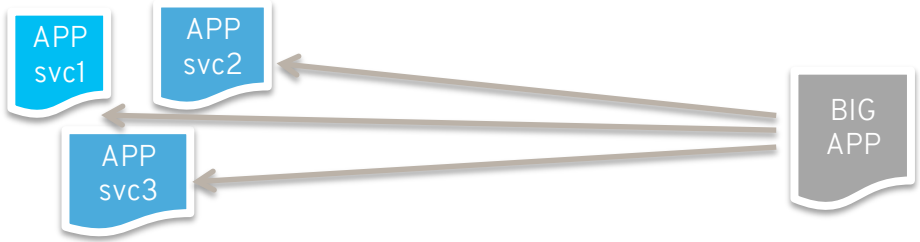


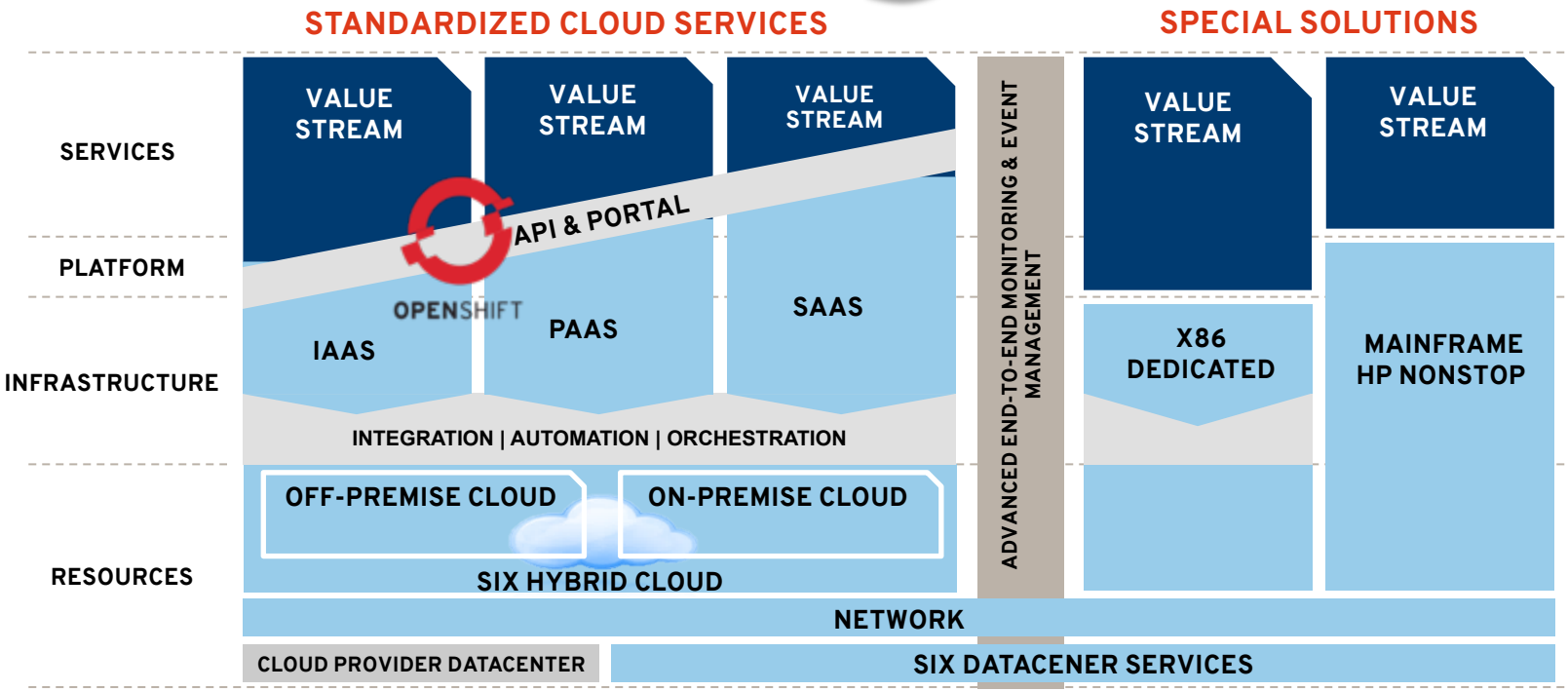
Source: http://seafarers.com.ua/few-words-to-schoolboy-about-sea/4871/
TODAY
Group

TOMORROW

“SHIFT HAPPENS”

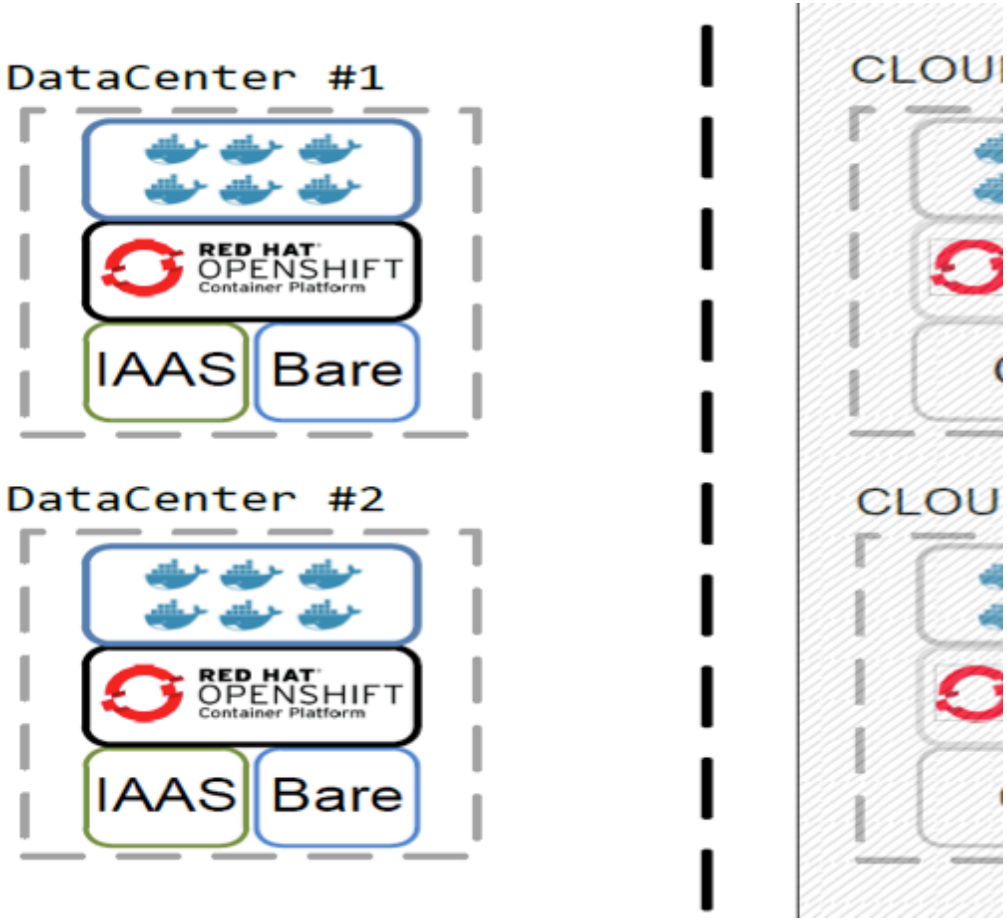
SHIFTING


APP
svc1
APP
svc2
APP
svc3
BIG
APP


STANDARDIZED CLOUD SERVICES
SPECIAL SOLUTIONS
SERVICES
PLATFORM
INFRASTRUCTURE
RESOURCES
VALUE STREAM
VALUE STREAM
VALUE STREAM
VALUE STREAM
VALUE STREAM
API & PORTAL
OPENSHIFT
IAAS
PAAS
SAAS
X86 DEDICATED
MAINFRAME HP NONSTOP
ADVANCED END-TO-END MONITORING & EVENT MANAGEMENT
INTEGRATION | AUTOMATION | ORCHESTRATION
OFF-PREMISE CLOUD
ON-PREMISE CLOUD
SIX HYBRID CLOUD
NETWORK
CLOUD PROVIDER DATACENTER
SIX DATACENER SERVICES

HIGH AVAILABILITY
HYBRID
HARDENING
SDN Zone SEGREGATION
ONE CLUSTER
INTEGRATED CI/CD PIPELINE
PCI APPLICATIONS
SCALABLE

ON-PREMISE SOLUTION



THE 5+1 DIMENSIONS OF D[illegible]S AT SIX

ENGOPS

MINDSET IS CRUCIAL

SKILLS

SPECIALIST

SPECIALISED GENERALIST

ORGANIZATION

FUNCTIONAL TEAMS

X-FUNCTIONAL TEAMS

STAY OUT OF THE WAY

ARCHITECTURE

MONOLITHIC/PACKAGED

SERVICES / API'S

MINDSET & ATTITUDE

PROCESS

MANUAL HAND-OFFS

CONTINUOUS DELIVERY

INFRASTRUCTURE

MANUAL PROVISIONING

AUTOMATED PROVISIONING

THE FUN PART

ENGOPS APPROACH

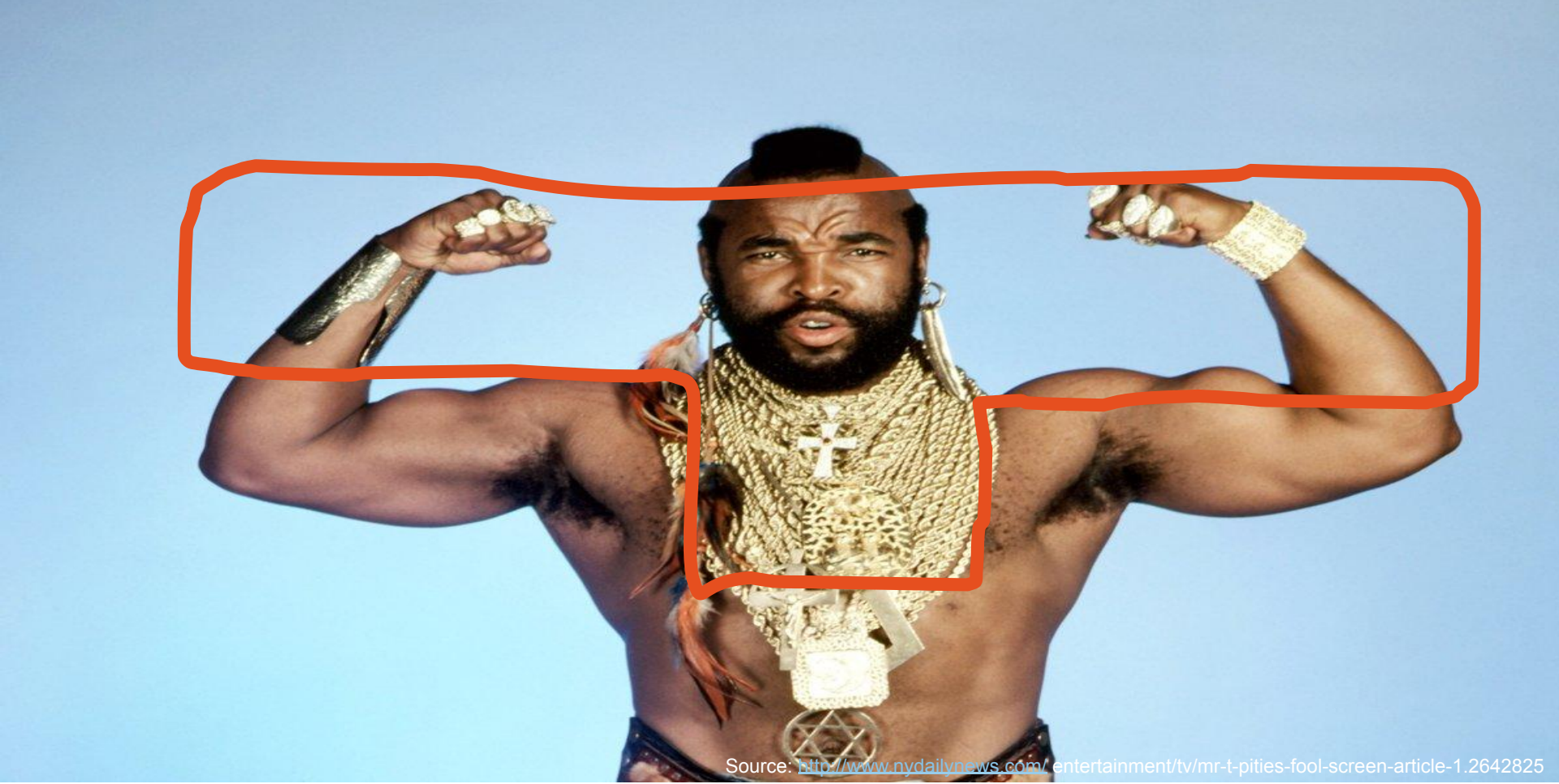
WE ADOPT THE DEVOPS APPROACH IN THE IT INFRASTRUCTURE LAYER

- **EngOps approach combines engineering (Eng) and operations (Ops)** within the same Competence Center
- **Agile principles and methods** (→ Self-organization, Kanban, Standups,…)
- **End-to-end responsibilities**
- **Foster automation** to reduce the manual OPS tasks

BRINGING ENG AND OPS TOGETHER IS ABOUT MINDSET

the engineer	and	the operator
FASCINATING! Little bit weird Sits closer to the boss Thinks too hard		Pulls levers & turns knobs Easily excited Yells a lot in emergencies

Source: John Allspaw and Paul Hammond



Source: http://www.nydailynews.com/entertainment/tv/mr-t-pities-fool-screen-article-1.2642825

SITE RELIABILITY ENGINEER

APPLICATION DEVELOPER	PLATFORM OPERATOR	PLATFORM DEVELOPER	TEST ENGINEER	APPLICATION OPERATOR
SOFTWARE DEVELOPMENT LIFECYCLE	MANAGE IAAS AND PAAS INFRASTRUCTURE	DESIGN IAAS AND PAAS INFRASTRUCTURE	TEST IMAGES AND INFRASTRUCTURES	MAINTAIN CI/CD PIPELINES
DEFINE APPLICATION REQUIREMENTS	SYSTEM AND NETWORK OPTIMIZATION	DEVELOP IMAGES (OS, DOCKER...)	RELIABILITY TESTING	CONFIGURATION AND CHANGE MANAGEMENT
DEVELOP PIPELINE AS CODE	PLATFORM MONITORING AND SUPPORT	INFRASTRUCTURE SCRIPTING AND AUTOMATION	AUTOMATE TESTS	CAPACITY PLANNING AND MONITORING

BROAD

DEEP

I'M A SYSTEM ENGINEER WHO CAN CODE!
GIVE DEV THE FREEDOM OF CHOICE BUT LIMIT IT!
HOW I HANDLE PROBLEMS:
I SOLVE THEM, AUTOMATE THEM AND SHARE THEM!

OPS
CONTROL

SYS
ADMIN

NETWORK

SIX Group

Source: https://www.pinterest.com/pin/203928689349212274/
THE JOURNEY HAS JUST STARTED

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