

IT-sourcing strategy - why, when and what?

A case story from a Danish University College (UCN):

- The drivers
- The process
- The outcome
- The current state of the project
- Questions



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UCN in a nutshell:

University College of Northern Denmark awards:

- Professional Bachelor Degrees
- AP Degrees
- Ongoing and Further Education: From day seminars tailored for specific organisations and professionals to Diplomas at the BA-level.
- More than 40 programmes and career opportunities.
- 18 fully English-taught programmes in a flexible 4+3 semester system

The numbers:

- Apx. 10.000 FTE / 15.000 Users on 6 campuses. Apx. 1.000+ Employees



Why an it-sourcing strategy? - Internal drivers:

1. Find possible solutions to a **increasing number of challenges** and threats re. it-operations, it-services and business development.
2. Potentially establish a **new foundation for development**

The strategy should address these **four themes**:

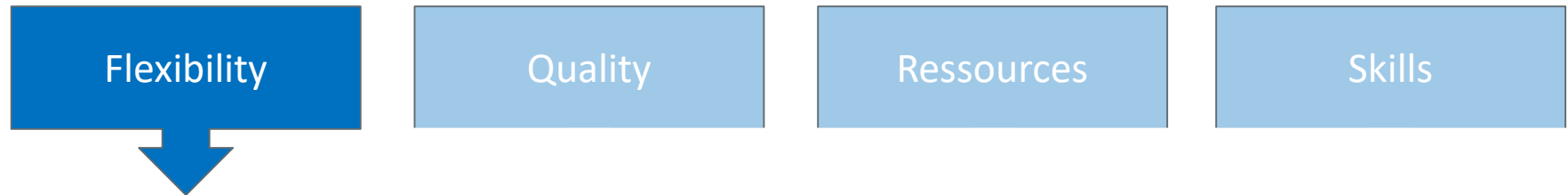
Flexibility

Quality

Ressources

Skills

Why an it-sourcing strategy? - Internal drivers:



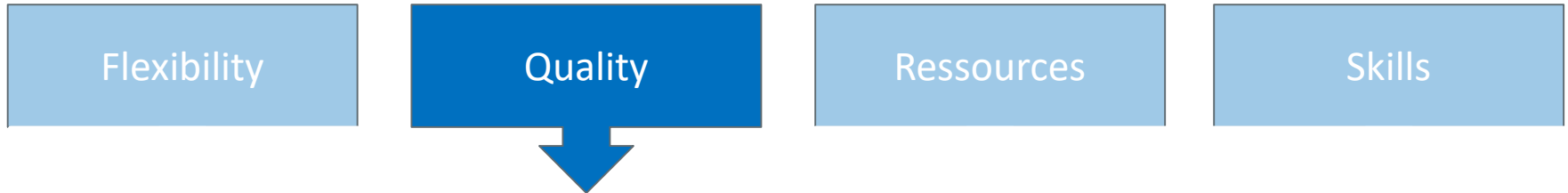
Current challenges:

- Increasingly difficult to (re) focus it on new business needs: The basic and critical “commodity” operation **drags attention away** from the business perspective.
- **Split personality** in it-management..
- **Internal “vendor” lock in**: Financial and technical flexibility is limited. E.g. exploring new models of service delivery.

Opportunities:

- Can sourcing support **more focus on the development** of the business through projects and services?
- Can we **Increase the speed** of projects and realization of projects?

Why an it-sourcing strategy? - Internal drivers:



Current challenges

- **Decreasing satisfaction** among users re. stability and quality (Annual surveys)
- **Increasing demands** for reliability, security and transparency in operations.
- **Speed and “Just-in-time”** as quality: Increasingly difficult to assist in projects and building new services.

Opportunities:

- **Increase user satisfaction** on “commodity” services. (Network, Wireless, system availability)
- **Gain access** to a higher level of security and IT process maturity (indirectly)
- **Deliver** new versions and new services **faster**

Why an it-sourcing strategy? - Internal drivers:



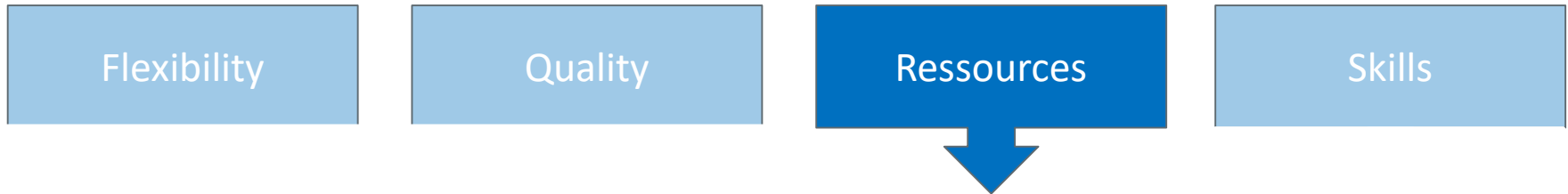
Challenges (1):

- **Economic flexibility is limited** due to large long-term investments in networks and in-house datacenter (CAPEX)
- **Lack of transparency** in the costs of individual services (The price of our Wireless?, The costs of a specific service?)
- **Increasing costs** for maintaining the necessary skills to run a professional data center and IT infrastructure.

Opportunities:

- Can we **move costs** from CAPEX and basic operation to development & projects?

Why an it-sourcing strategy? - Internal drivers:



Challenges (2):

- **High vulnerability:** All core activities concerning UCN Infrastructure and Data Center are handled by 1-2 homegrown specialists.
- **# of servers** that run in-house decreases due to a shift in software vendor strategy = Price per. server in-house expects to increase beyond market price.

Opportunities:

- **Reduce vulnerability**
- Buy (some of) the necessary **critical mass** from a vendor instead of creating in-house.
- **Saving costs ?** That is not a specific goal. In contrary : It is expected that operations costs will increase through the transition – but evens out in year 2.

Why an it-sourcing strategy? - Internal drivers:

Flexibility

Quality

Ressources

Skills



Addressing challenges:

High vulnerability: Our investments in high-end skills was at risk:

- ..of being headhunted,
- ..of being unavailable (when sick, on vacation, when attending courses)
- ..of being under-utilized.

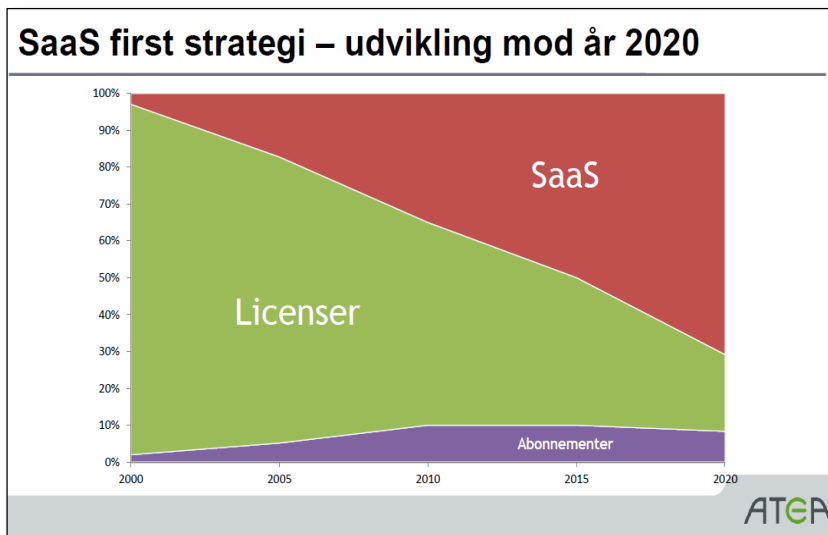
Costly and time-consuming: Increasing demand for advanced knowledge re. critical it-operations.

Oppertunities

- Get (indirect) access to highly specialized skills without the risks.
- Re-vitalize the “System-administrator” role to a new era of a “multi-vendor” and hybrid setup.

Why an it-sourcing strategy? - External drivers:

- Observe **global trend**: The global number of server rooms and small data centers decreases (And the big get bigger ..) (Source: Gartner tech forecasting 2014)
- **Costs on IaaS and PaaS** services falls steadily (Source: Zangenberg Analytics, Denmark)
- **Critical mass** for professional it-operation increases. (In terms of financial power, sufficient expertise and staffing).
- Software vendors shifts to **SaaS first strategy** :



HOW to create an it-sourcing strategy?

The actual proces in UCN :

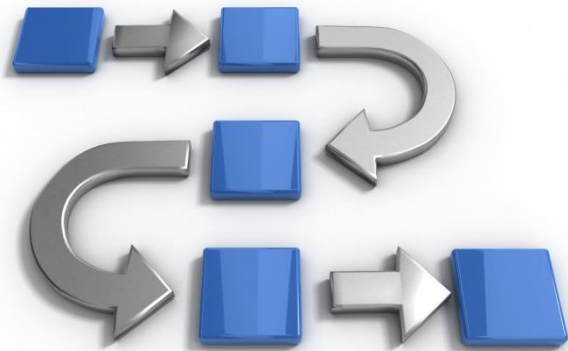
Time (2015)	Activity
Months prior to startup	Observing performance, capability and risks re. it-operation
February:	Startup (Inform employees, obtain top management support, onboarding external consultants)
February – April:	Analysis (Gathering data and interviews)
May:	Negogiate conclusions and building of the strategy
June-August	Adoption and initiation of strategy
September 2016- December 2017	Execution of strategy



HOW to create an it-sourcing strategy?

Method:

1. Break down the overall IT services into smaller and manageable parts that could be analyzed independently.
2. Analysis of it-operation **expenditures** (price per server etc..)
3. Brief assessment and evaluation of the **it-organization** and it's capabilities
4. **Interviewing** it-operation staff
5. **Compare** results with best-practice and sourcing market reports



HOW to create an it-sourcing strategy?

Method:

- Devoteam's it-operating model was used to break down the overall IT services into smaller and manageable parts that could be analyzed independently:

Example of a specific service:

3. RD PARTY	3. RD PARTY	UCN	Application
3. RD PARTY	3. RD PARTY	UCN	Platform
UCN	UCN	UCN	Infrastructure
Design	Build	Run	

HOW to create an it-sourcing strategy?



Tip #1: Using a external consultant firm:

- **PRO:** Neutral partner supports objectivity and adds market research and best practice know-how.
- **CONS:** Forced to reduce AS-IS complexity (due to price) and thereby masks potential risks and barriers re. outsourcing.

Tip #2: "IT-sourcing strategy" is interpreted "Full-outsourcing to india" from day 1 in the it-department and thus: **Risks increase immediately!** (reliability, stability)

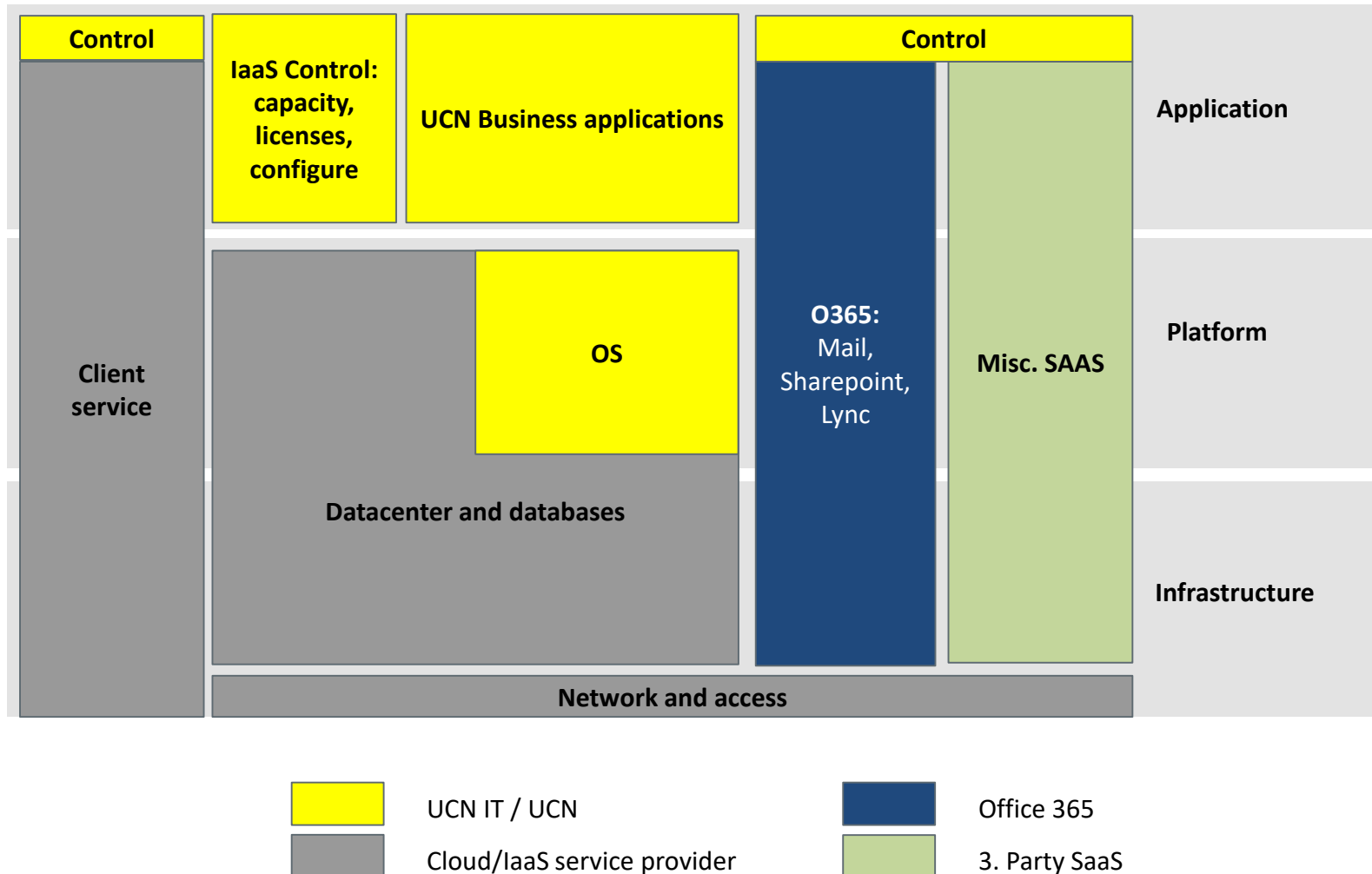
- Create **backup plan** prior the entire process: Seas backup agreements in the market.
- **Visualize future** roles and assignments for it-operation staff.

Tip #3: **Beware of the numbers:** It-operation expenditures is difficult to break down to a price of a specific service. The business case should be seen only as indicative.

It-sourcing strategy - The result

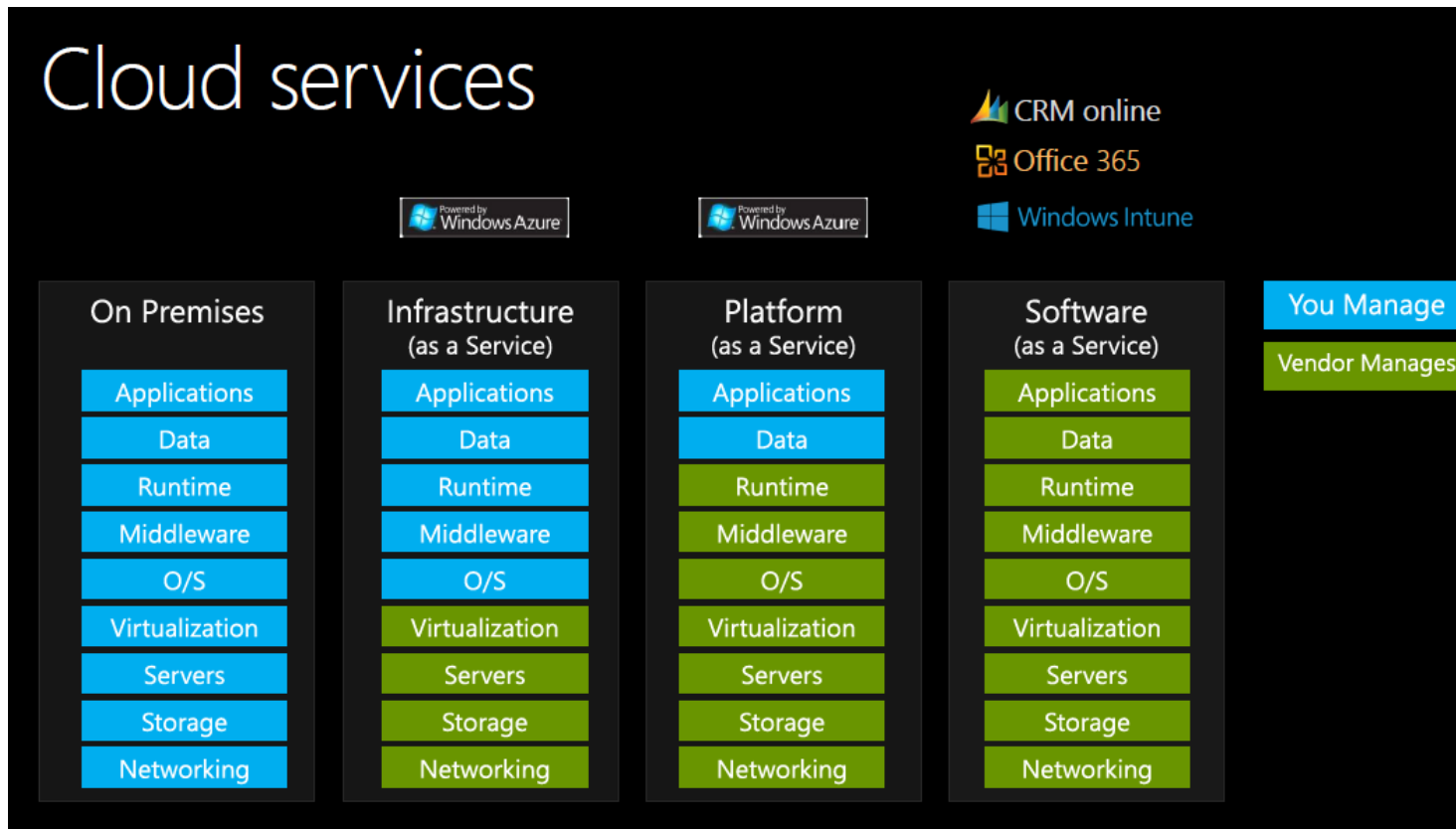


Devoteam's suggested it-operating model after analysis:



It-sourcing strategy - **The result**

Datacenter: Move to the right..now.

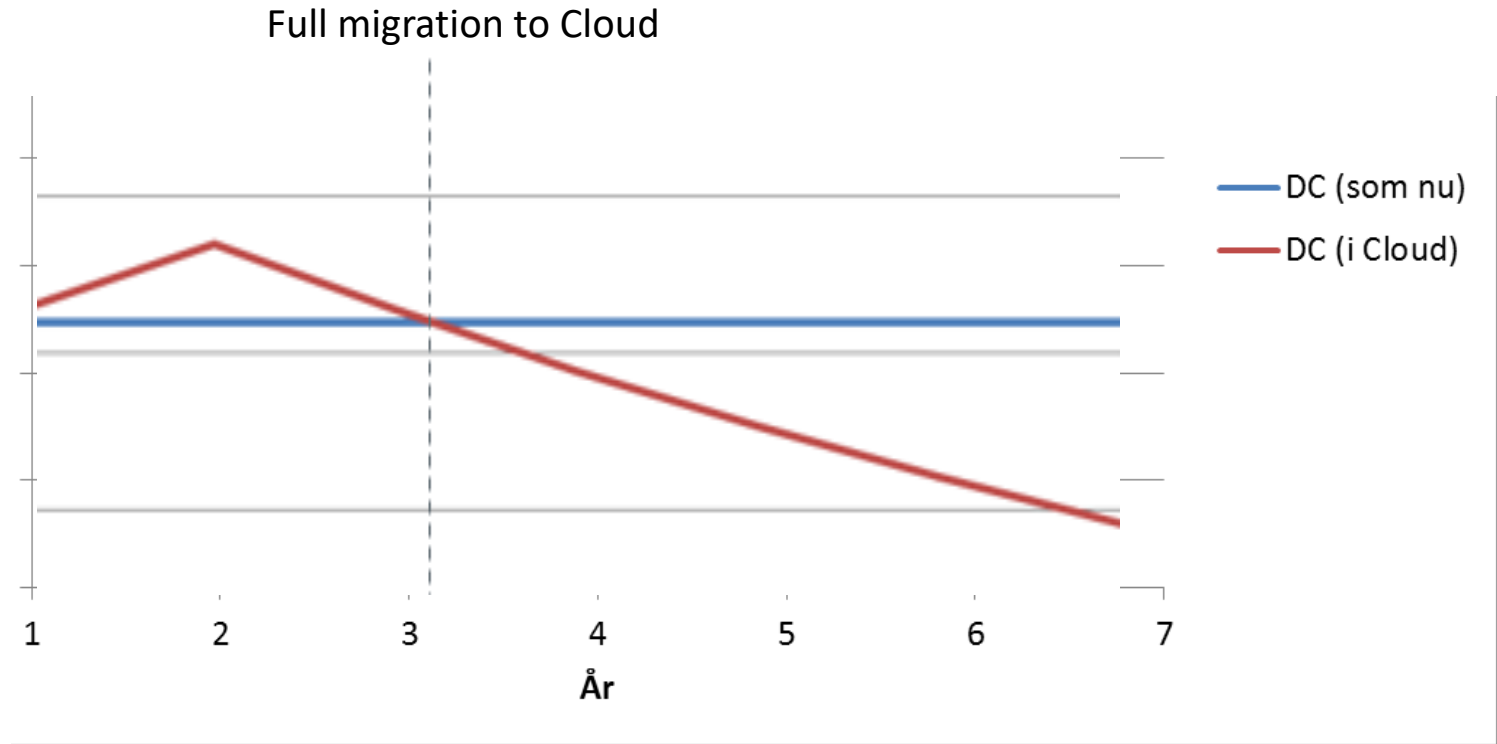


It-sourcing strategy - **The result**

The core of the strategy:

1. **Enable "SaaS first" policy** on all new it-services
2. **Shutdown of on-Premise datacenter** -Move to managed infrastructure
3. **Evaluate and enter market for "Network-as-a-Service"**
4. **Shift to "Print-as-a-Service"**
5. **Hardware delivery "as-a-service" (preparation, shipping etc.)**

Estimated datacenter/cloud costs



It-sourcing strategy – Timing (Late 2015)

- ..Large, necessary **hardware re-investments was closing in** on us: Wireless, firewall and internal datacenter refactoring.
- ..Reducing the current vulnerability of business-critical infrastructure operation would **call for a major step-up in both staffing** and in the quality of our internal processes..
- ..Standard IT services is, in general, **becoming non-differentiating** for UCN. They are seen as *commodity* for users in line with water + electricity. Stability, quality & reliability must therefore be extremely high.
It is unlikely that UCN on the long run can “beat the market” on delivering these core services..
- ..Begin a **transition in "peace time"** and not from a fast-burning platform



It's now..



It-sourcing strategy – Execution

When to execute?

- As **fast as possible** after adoption: Increased risk from day 1 on a number of parameters: (All projects slow down, stability & reliability in operations, wellbeing of the employees etc.)



Funding?

- **Hit the brake hard** from day 1 on further investments in on-premise operation.
- **Shutdown or change** projects that doesn't support the new strategy.
- Some employees may quit fast
- Reallocate funds to support sourcing projects.



Communication?

- What to expect NOW
- What to expect in transition
- What to expect in the future



It-sourcing strategy – Results



1. Enable "SaaS first" policy on it-services

- Canvas LMS replaces on-premise LMS (Done)
- Move Exchange to Office 365 (Done)
- Move Sharepoint, LYNC etc. to Office 365 (Done)

2. Shutdown of on-Premise datacenter:

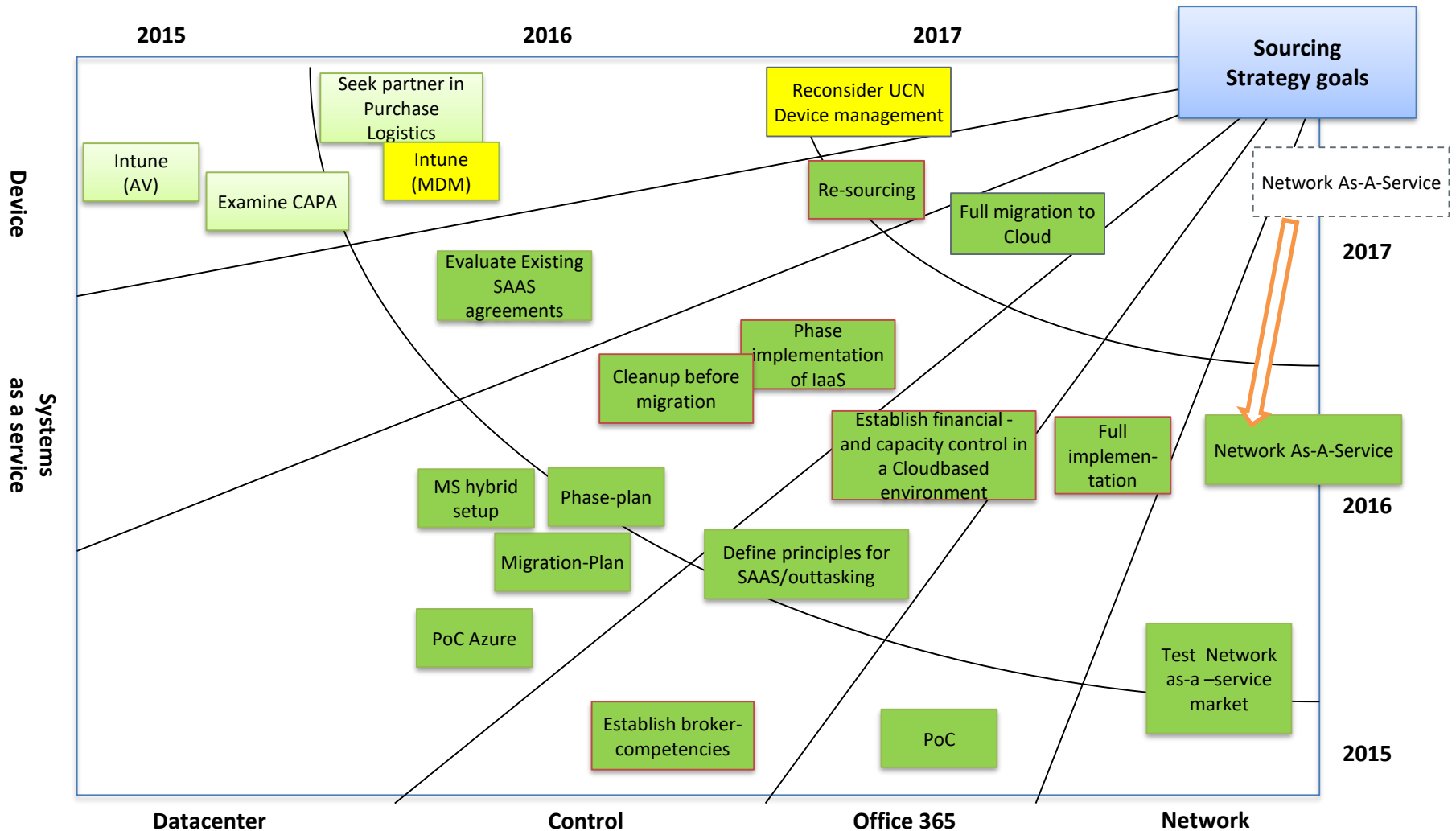
- Move 80+ servers to Azure (Done)
- Move to classic ASP on a few selected services (Done)
- Establish Print-as-a-Service (Done)

3. Network as a Service

- Test the market for Network-as-a-Service (Done)
- Network-as-a-Service tender and contract completed (Done)
- Establish Network-as-a-Service (Done)

4. Client preparation and delivery as a Service (Tender currently in the market)

Sourcing strategy – Plan



Sourcing strategy – Dismantle On-Prem datacenter

UCN On Prem
200+ Servers



90+

Goodbye



- Clean up mess
- Consolidation
- On-Prem management

40+

SaaS



- Mail / Calendar (O365)
- Office (O365)
- Skype for Business (O365)
- Files (O365)
- Power BI (O365)
- Intranet (Webtop)
- ESDH (Axpoint)
- WORKFLOWS (Nintex)
- LMS (CANVAS)

60 +

IaaS



- SSO + ADFS + AD Connect
- SQL
- UMS Provisioning
- Non-SaaS services
- EDU-Applications

12

ASP



- Print & Scan
- Print Payment & reports
- Navision STAT, LDW
- Accobat
- OnLine Backup (BaaS)

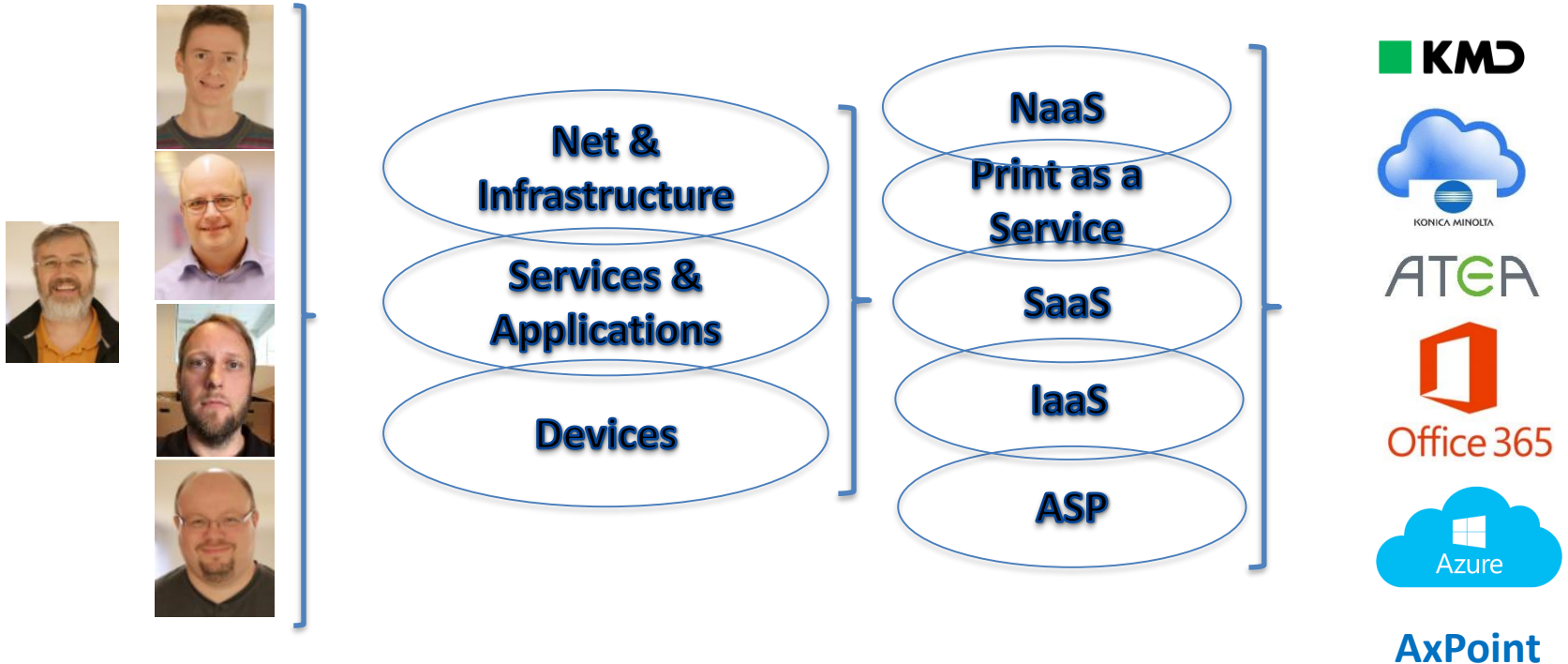
Small High-performance organization: Operation, Infrastructure & Client in one team.

(Dream)Team

Delivers

Koncepts

Vendors





(Radical) Sourcing strategy – Key Experiences

Startup considerations:

- Key-employees might leave – Partner/Backupplan is mandatory
- Internal flexibility decreases fast \equiv Loss of capacity re. development (in transition Phase)

Investments, economy and services:

- UCN Cloud Datacenter expenditures is lower than on-premise (Need to hit "sweet-spot" in getting rid of CAPEX expenditures) – Much better SLA and Compliance
- Network-As-A-Service : Neutral expenditures compared to former internal operations, but much better SLA/quality.
- Print-As-A-Service: Slightly cheaper compared to on-prem service. Better SLA

Experiences:

- Organization: Communicate impact re. Current and future services re. SLA, function and capacity– Especially potential loss of local customization, capacity etc..
- Dramatic reduction of stress in department and periodic "fire-extinguish" – More room for projects og "business development"

It-sourcing strategy – Facing new Challenges !

More services and services "from the cloud":



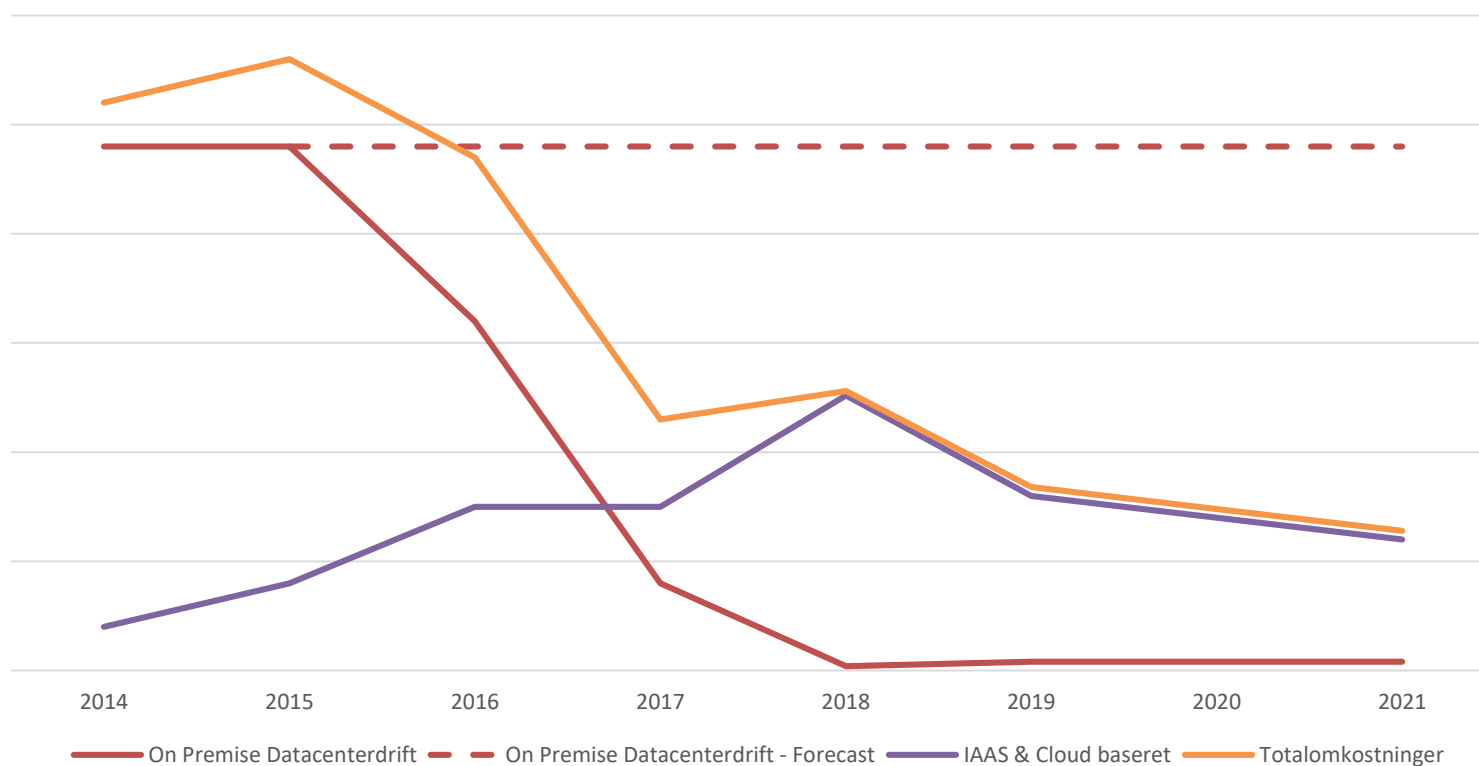
- Much **faster succession** of applications, features and services: Puts pressure on support, governance and planning – and average users.
- Uncontrolled release of potential **"disruptive features"** through SaaS services.
- **More "Mobile first"** will be available to users: Accelerate demands for more..
- **Less flexibility** and customization of future it-services: "Standard" and "Good-enough" rules.

Economy & resources:

- More utility computing and "pay-per-view" services could mean new challenges in controlling and forecasting operating costs.

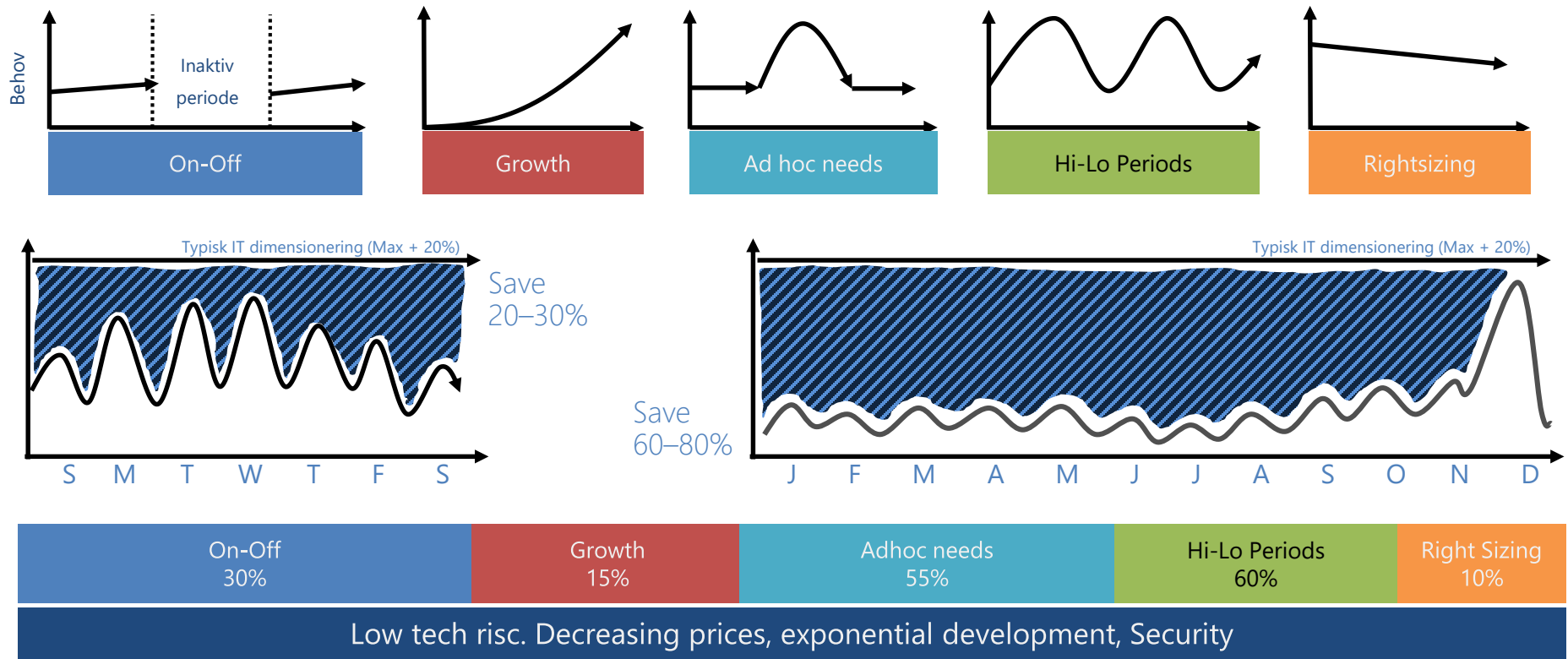


Sourcing of Datacenter – Actual cost development



Capacity based cost-management

– Smarter IT



What's next?

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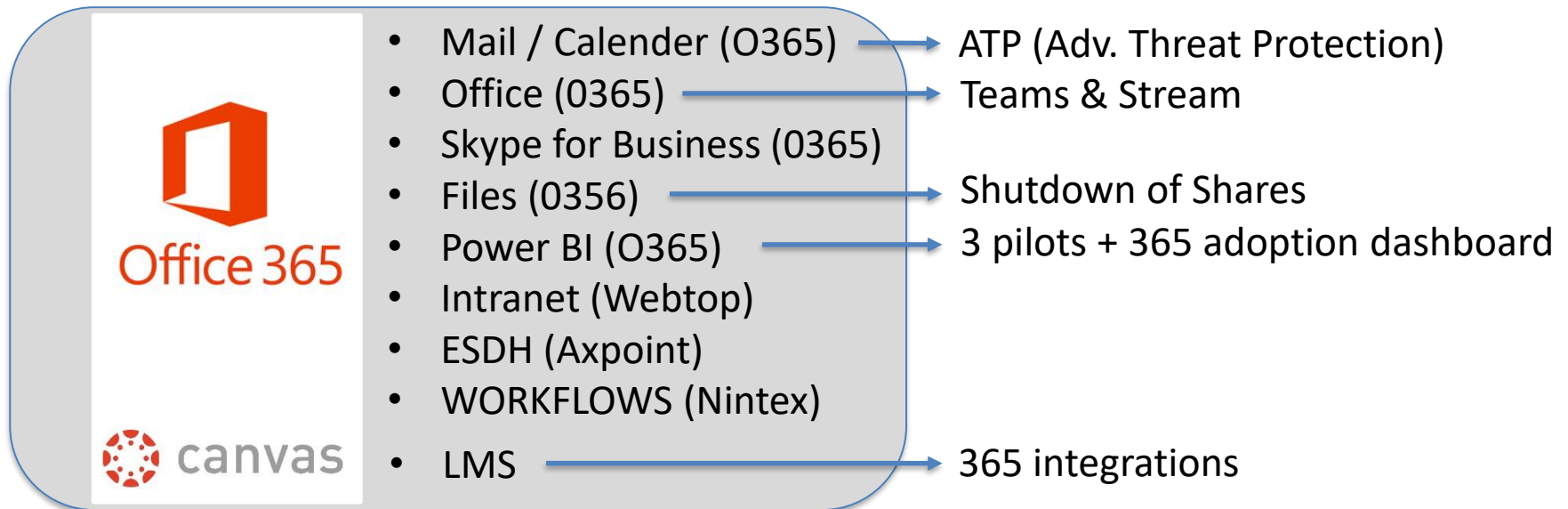
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Office 365 / SaaS – New challenges

1. Adoption – Adoption - Adoption

2. Address accelerated feature deployment features..

3. Projects:



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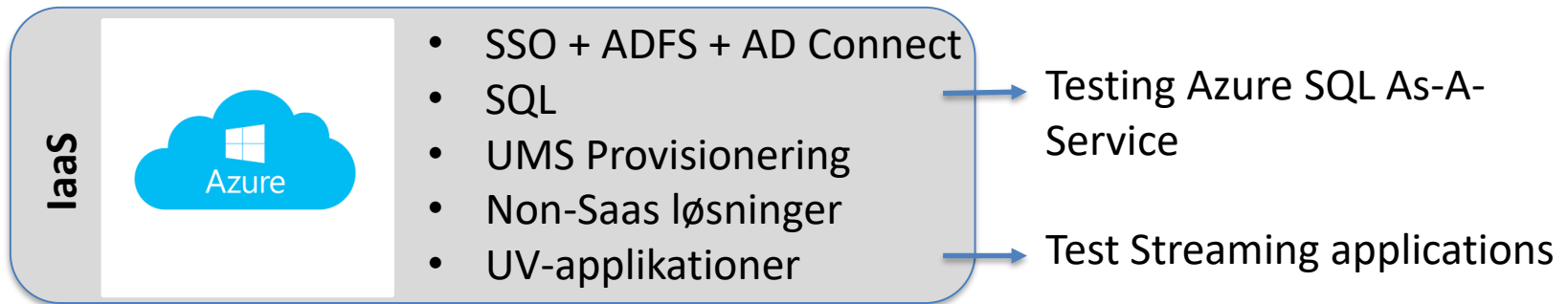
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Azure – What's next?

1. Continue capacity optimization in Azure.
2. Test EMS (Enterprise Mobility Suite)
3. GDPR Compliance project via Azure Advanced Protection
4. Projects:



Thank You for listening!

Questions or comments?