

Outsourcing af it-drift

Oktober 2014

Kort om Zangenbergs Analytics

- Vi har benchmarket it-aftaler siden 2010
- Vi har mere end 200 aftaler i vores database med en samlet årlig volumen på over 3 mia. kr. – det svarer til over 17% af det samlede marked
- Vi er indskrevet som benchmarker i en række aftaler mellem kunder og såvel nationale som internationale leverandører
- Vores abonnementsordning Quarterly Analytics giver løbende adgang til enhedspriser, indeks, analyser og tutorials, der letter arbejdet med it-sourcing.

Referencer

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analytics

Offentlig sektor



POLITI



DIGITALISERINGSSTYRELSEN



Sundhedsstyrelsen



KØBENHAVNS UNIVERSITET



Region
Hovedstaden

REGION
SJÆLLAND



KOMBIT
Kommunernes it-fællesskab

KØBENHAVNS KOMMUNE



Forsvaret
Forsvarskommandoen

The logo features a blue crown icon above the word "SKATTEMINISTERIET" in blue capital letters.



Statens & Kommunerne Indkøbs Service A/S



Danmarks Miljøportal



ÅRHUS
KOMMUNE

Sourcinglandskabet idag

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Centrale systemer

| | Medlems-system | WEB CMS | ESDH | SAP | Øvrige systemer | Mail |
|--------------------------|----------------|----------|--------------|----------|-----------------|-----------|
| Udvikling | In-house | KMD | CSC | IBM | In-house | TDC-Cloud |
| Vedligehold | In-house | KMD | CSC | IBM | In-house | TDC-Cloud |
| Helpdesk | In-house | KMD | In-house/CSC | IBM | In-house | TDC-Cloud |
| Databasedrift | In-house | In-house | CSC | IBM | In-house | TDC-Cloud |
| Applikationsdrift | In-house | In-house | CSC | IBM | In-house | TDC-Cloud |
| Storage | In-house | In-house | In-house | In-house | In-house | TDC-Cloud |
| Servere | In-house | In-house | In-house | In-house | In-house | TDC-Cloud |
| Housing | In-house | In-house | In-house | In-house | In-house | TDC-Cloud |

Decentral platform

| | Workstation | Netværk | Printer/ periferi |
|-----------------------|-------------|----------|----------------------|
| Vedligehold | In-house | In-house | In-house |
| Onsite support | In-house | In-house | In-house |
| Helpdesk | In-house | In-house | In-house |
| Overvågning | In-house | In-house | In-house |
| Ejerskab | In-house | In-house | In-house |

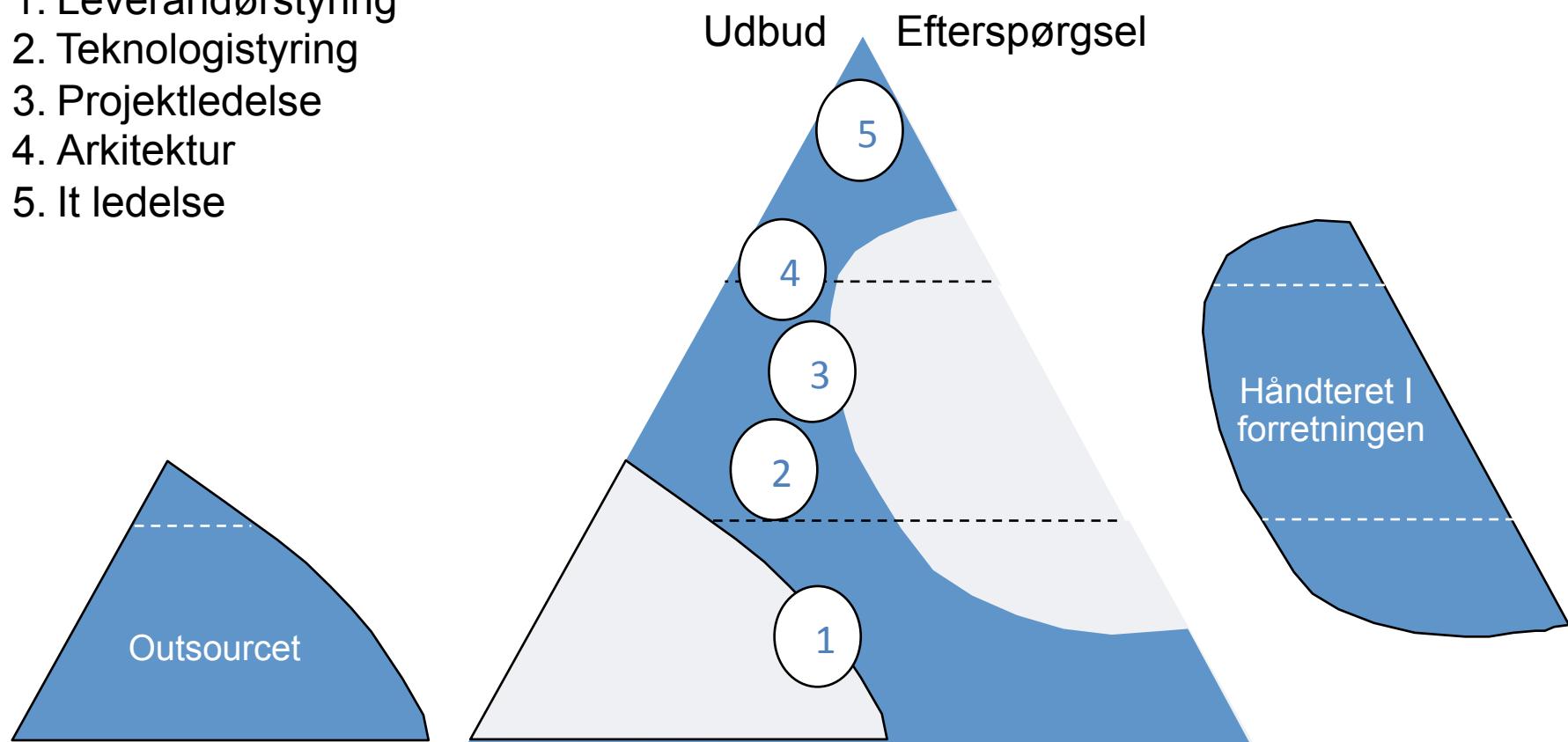
Succes med outsourcing kræver

- At man tilpasser sig markedets standardiserede ydelser
- At man bibeholder en række kompetencer i organisationen
 - primært indenfor ledelse, arkitektur, projektledelse og leverandørstyring
- At man har en klar og opdateret sourcingstrategi
- At man løbende udfordrer og konkurrenceudsætter eller benchmarker ydelserne
- At man har stærke leverandørstyringsprocesser, governance og kompetencer på plads
- At man løbende tilpasser aftaler, rapportering og governance til de aktuelle behov

Gartners IS-Lite model

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1. Leverandørstyring
2. Teknologistyring
3. Projektledelse
4. Arkitektur
5. It ledelse

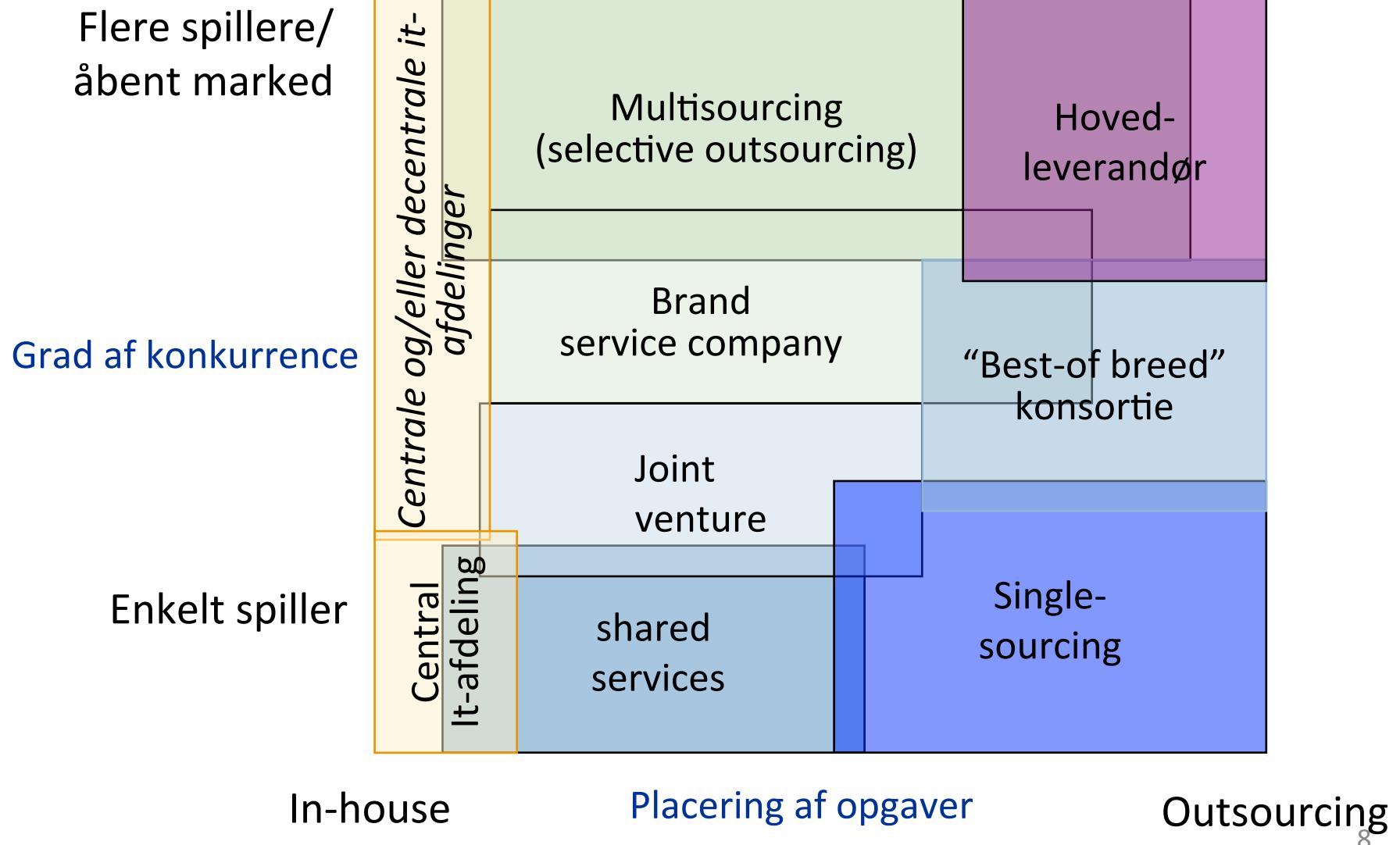


Du har en sourcingstrategi når du kan svare entydigt og udtømmende på disse spørgsmål

- De fælles mål der driver beslutningerne om sourcing
- Ydelser der skal sources (drift, vedligehold, udvikling)
- Den organisation (intern eller ekstern) der skal levere ydelsen
- Leverancemodellen
- Lokationen
- Beskrivelsen af hvad der trigger en revurdering af beslutningen

Sourcingmodeller

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Fokusområder for servicefællesskaber

- Hvis målet er omkostningsreduktion (eller blot markedskonforme priser) er standardisering en meget vigtig forudsætning
- Hvis målet er stabilitet er standardisering en forudsætning
- Vær opmærksom på, at prismodellen (charge-back struktur) er et meget væsentligt styringsinstrument
- Erfaringen viser, at servicefællesskaber kan levere stabil drift til konkurrencedygtige priser hvis de:
 - Har styr på omkostninger og markedspriser
 - Har kritisk masse (typisk over 500 servere)
 - Sørger for at standardisere, konsolidere og virtualisere infrastrukturen hurtigt
 - Arbejder med et begrænset sæt af SLA'er
 - Driver intern standardisering af processer
 - Professionaliserer arbejdet med kunderelationer
 - Prissætter specialydeler i forhold til faktiske ekstra omkostninger (som en leverandør ville gøre det)

Sourcinglandskabet idag

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| Ejerskab | In-house | In-house | In-house |

Scenarie 1

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| Databasedrift | XX | XX | CSC | IBM | XX | TDC-Cloud |
| Applikationsdrift | XX | XX | CSC | IBM | XX | TDC-Cloud |
| Storage | XX | XX | XX | XX | XX | TDC-Cloud |
| Servere | XX | XX | XX | XX | XX | TDC-Cloud |
| Housing | XX | XX | XX | XX | XX | TDC-Cloud |

Decentral platform

| | Workstation | Netværk | Printer/ periferi |
|-----------------------|-------------|---------|----------------------|
| Vedligehold | YY | YY | YY |
| Onsite support | YY | YY | YY |
| Helpdesk | YY | YY | YY |
| Overvågning | YY | YY | YY |
| Ejerskab | YY | YY | YY |

Scenarie 2

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Centrale systemer

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| Applikationsdrift | In-house | In-house | CSC | IBM-Cloud | In-house | TDC-Cloud |
| Storage | XX | ZZ-Cloud | ZZ-Cloud | IBM-Cloud | XX | TDC-Cloud |
| Servere | XX | ZZ-Cloud | ZZ-Cloud | IBM-Cloud | XX | TDC-Cloud |
| Housing | XX | ZZ-Cloud | ZZ-Cloud | IBM-Cloud | XX | TDC-Cloud |

Decentral platform

| | Workstation | Netværk | Printer/ periferi |
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| Vedligehold | YY | YY | YY |
| Onsite support | YY | YY | YY |
| Helpdesk | YY | YY | YY |
| Overvågning | YY | YY | YY |
| Ejerskab | YY | YY | YY |

Markedet

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Markedet

From a stable balance to a volatile market

Stable balance – up to 2005

Smaller number of large players dominate the market

Large transition costs create effective lock-in

No transparent pricing

Little or no mobility

Unstable balance - 2005 to 2012

Dramatic drop in market-prices – but not in existing contracts

The beginning of benchmarking

Increased transparency

A more mature and transparent market – 2013 and forward

Benchmarking used to find major savings

New entrants moving into the market

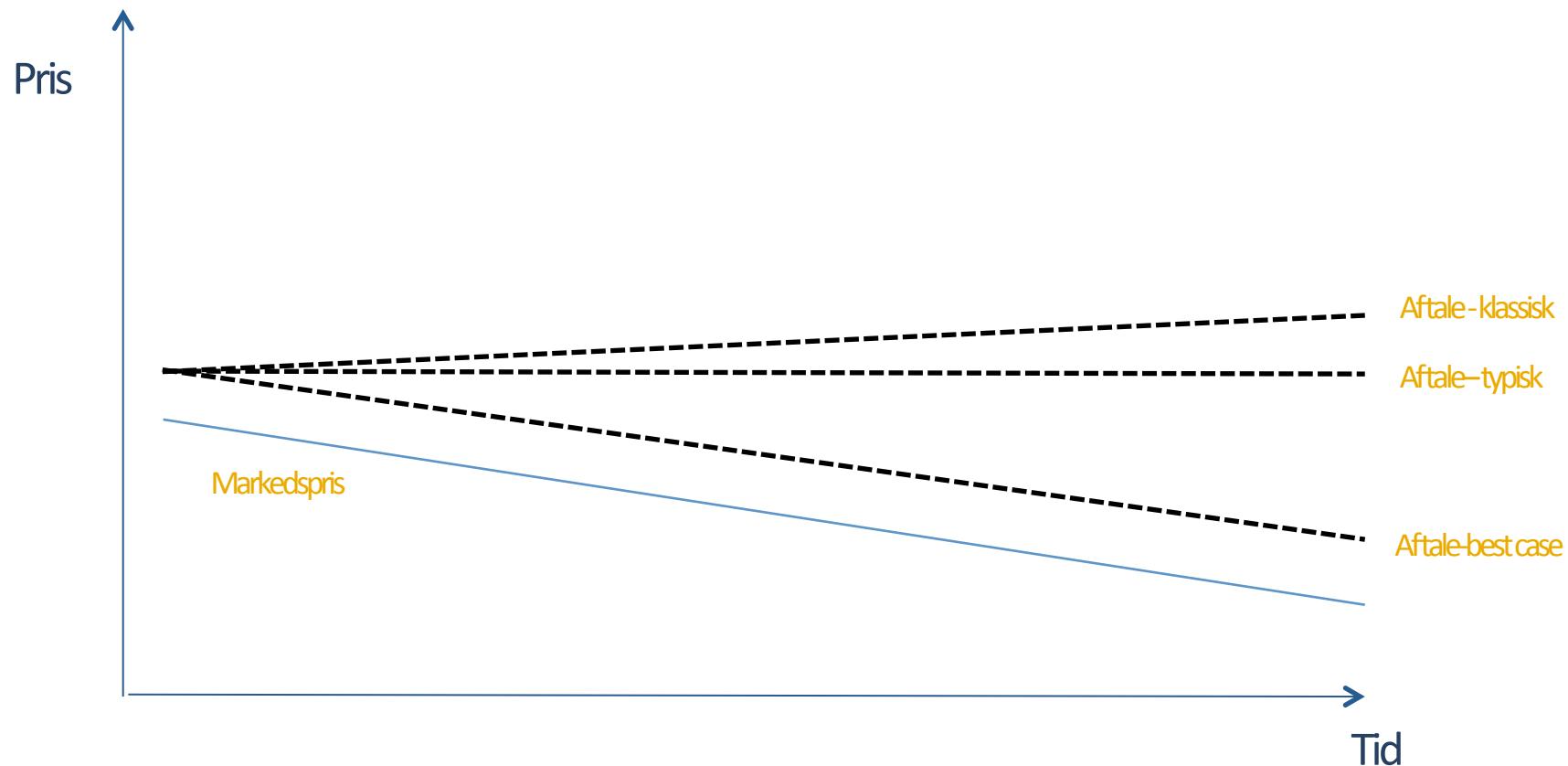
Multisourcing is the norm

From deal complexity to sourcing complexity

- Clients are seeking standardized services to reduce overall cost
- The Schizophrenic vendors: we deliver client specific services in a market where standardization is the key to price AND quality
- Multisourcing: for the professional customer. Best of breed services from different vendors.
- This requires competencies, strong governance and implemented vendor management processes

Prisudvikling

Langt de fleste kunder har en flerårig aftale med en fast årlig pris (nogle har endda en svag stigning indbygget) i et marked med faldende priser. Det er grunden til at en benchmark ofte viser en pris over markedsprisen



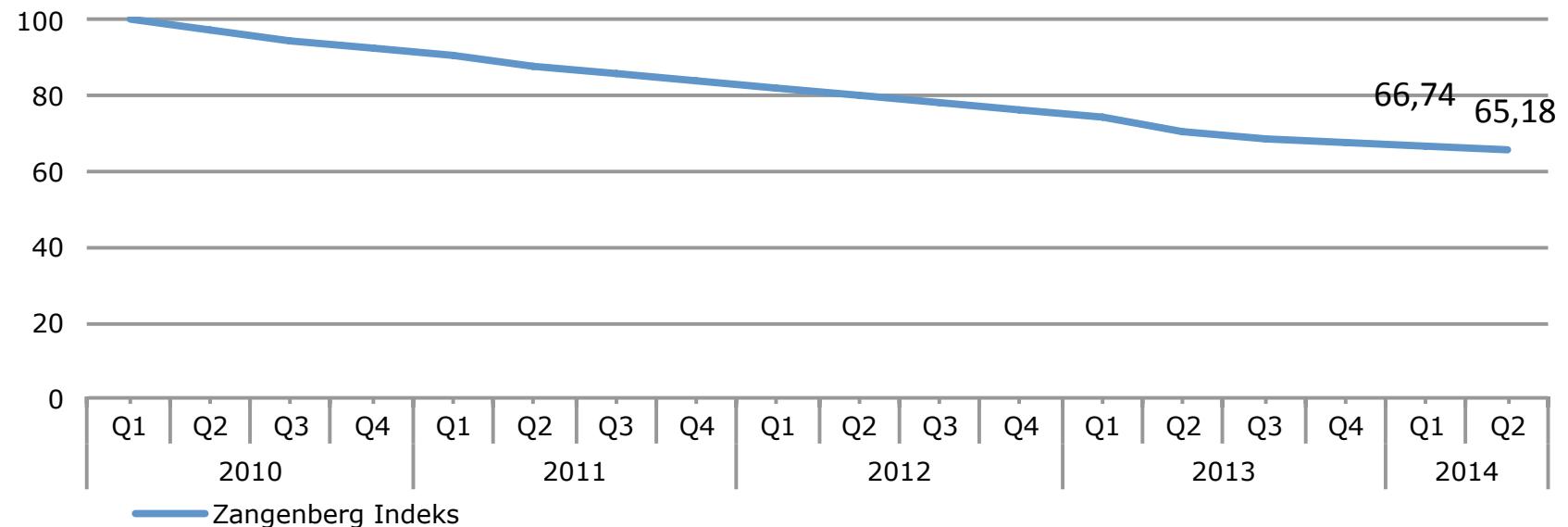
Zangenberg indekset

- Zangenberg Analytics har siden 2010 tracket priserne i it-outsourcing markedet, og baseret på disse data har vi udviklet Zangenberg indekset.
- Zangenberg indekset består af en række sub-indeks; server indeks, storage indeks osv.
- Sub-indeksene er vægtede efter deres "andel" af en standard kontrakt.
- Zangenberg indekset kan derfor bruges til at beskrive udviklingen i en kontrakt, der indeholder standard ydelser og en for så vidt mulig standard sammensætning af ydelser.

Zangenberg indekset

ZANGENBERG INDEKS

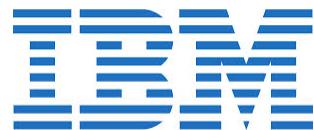
Axis Title



The Danish outsourcing Market

- Total outsourcing market: approx 18 bDKK
- Four large players
- Indian entrants
- Midsize players growing up
- Broadband competitors
- Hosting/CoLocation pure-play

The big four



- Significant share of total market
- Significant presence in public sector
- All but NNIT have mainframe operation
- All four vendors have contracts on benchmark
- All four vendors present significant variance in pricing across their customer base for identical services

The midsize players

ATEA

Atos
CGI

netcompany®

NETDESIGN

FUJITSU

hp
accenture

EG
Adding value to business

T-Systems

- The midsize players increase their market share through a combination of organic growth and acquisitions and mergers.
- All players offers datacenter services
- Some have deep expertise in application development, SAP-operations and workstation outsourcing.
- The price-distribution is generally smaller than for the big four and all the players in the mid-market can offer services on the benchmark-price.

Indian entrants



Cognizant

- After a longer period in the role of subcontractors the Indian entrants are now emerging as contractors in their own right.
- The targets are the major private sector corporations – typically Nordic Top-50 or clients with a significant total spending over a period.
- Despite the conventional wisdom, the Indian players are NOT seen as especially aggressive on price when we benchmark their contracts, though they are at benchmarking level.

Broardband and hosting pure-plays



- Coming from a market with a completely different pricing dynamic these players offer highly standardized capacity based services at a very competitive unit price.
- Currently the market share is low, but the services are expected to in demand – either sourced directly from these venders our though a main-contractor.
- Pure-play hosting companies (hosting and co-location) make inroads as subcontractors and as an attractive offering for companies with high level of internal “production”.
- These companies offer the most aggressive pricepoints, but the services are typically more limited in scope compared to the traditional outsourcing players

Metode

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Metode

Pricing mechanisms

Predictable

Fixed Price

Agreed
reduction

Follows the
market

Indexed price

Benchmarking

Market-prices

- Our benchmarking model is populated with values from our own normalized database of price-points
- Data from leading research companies are used to verify and adjust
- All important price-points in the benchmarking model has been verified with at least two outsourcing vendors.
- Our "Archetypes" ("fictitious" contracts, described in detail and with a calculated benchmark-price) has all been confirmed by outsourcing-vendors.

The it-services market

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The overall breakdown of the services market

Application development

Function-point based benchmarking.

Application maintenance

Peer-group benchmarking. Benchmarking of rate-cards

Software and software services

Stringent benchmarking model for major software vendors

Operational services

Stringent benchmarking model the majority of services offered in the market

Hvorfor benchmarke?

- Drift udgør typisk en betydelig del af it-budgettet.
- Hvis en del af driften er outsourcet betaler du nok for meget
- Med en benchmark får du det mest potente værktøj til en genforhandling og nedbringelse af de outsourcede omkostninger
- Værktøjet virker – andre har fået endog meget store reduktioner
- Du kan bruge det nu – også selvom du er midt i kontraktperioden
- Vi vil ikke sælge en benchmark medmindre vi tror, at der er mindst 10 gange honoraret at spare

What companies achieved through benchmarking

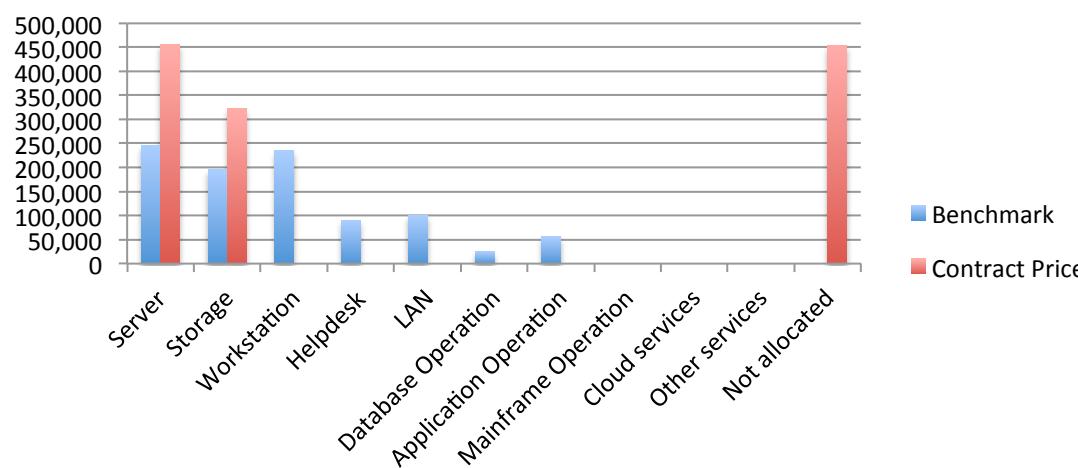
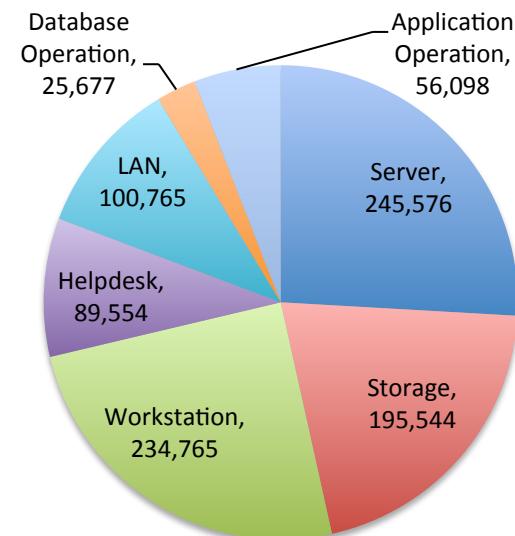


Benchmarking

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Output sample

| Element | Benchmark | Contract Price | Difference |
|-----------------------|-------------------|-------------------|------------------|
| Server | 245.576 | 456.098 | 210.522 |
| Storage | 195.544 | 321.887 | 126.343 |
| Workstation | 234.765 | | -234.765 |
| Helpdesk | 89.554 | | -89.554 |
| LAN | 100.765 | | -100.765 |
| Database Operation | 25.677 | | -25.677 |
| Application Operation | 56.098 | | -56.098 |
| Mainframe Operation | | | n/a |
| Cloud services | | | n/a |
| Other services | | | n/a |
| Not allocated | | 453.667 | 453.667 |
| TOTAL | 947.979 | 1.231.652 | 283.673 |
| Total pr Year | 11.375.748 | 14.779.824 | 3.404.076 |



Operational services benchmark model

Server

- Wintel – physical 1-4 CPU
- Wintel – physical 5-8 CPU
- Wintel – physical 9-16 CPU
- Wintel – virtual 1 CPU
- Wintel – virtual 2 CPU
- Wintel – virtual 4 CPU
- Wintel – virtual 5-8 CPU
- Wintel – virtual 9-16 CPU
- UNIX/LINUX– physical 1-4 CPU
- UNIX/LINUX– physical 5-8 CPU
- UNIX/LINUX– physical 9-16 CPU
- UNIX/LINUX– physical >16 CPU
- UNIX/LINUX– virtual 1 CPU
- UNIX/LINUX– virtual 2 CPU
- UNIX/LINUX– virtual 4 CPU
- UNIX/LINUX– virtual 5-8 CPU
- UNIX/LINUX– virtual 9-16 CPU
- UNIX/LINUX– virtual >16 CPU
- Housing

Storage

- SAN
- Backup
- Remote Backup

Database operation

- MS SQL
- Oracle
- DB2

Application operation

- Standard application
- Special application
- SAP

Helpdesk

- Standard applications only
- Special applications

LAN/WAN

- Switches
- Routers
- Wireless access points
- Proxy and WEB-Gateways
- VPN
- Other components

Workstation

- Desktop PC
- Laptop
- Virtual PC

Mainframe

- Mainframe Operation
- DASD
- Tape

Industrialized/Hybrid Cloud

- Virtual Windows Server
- Virtuel Linux Server
- Storage
- Remote backup

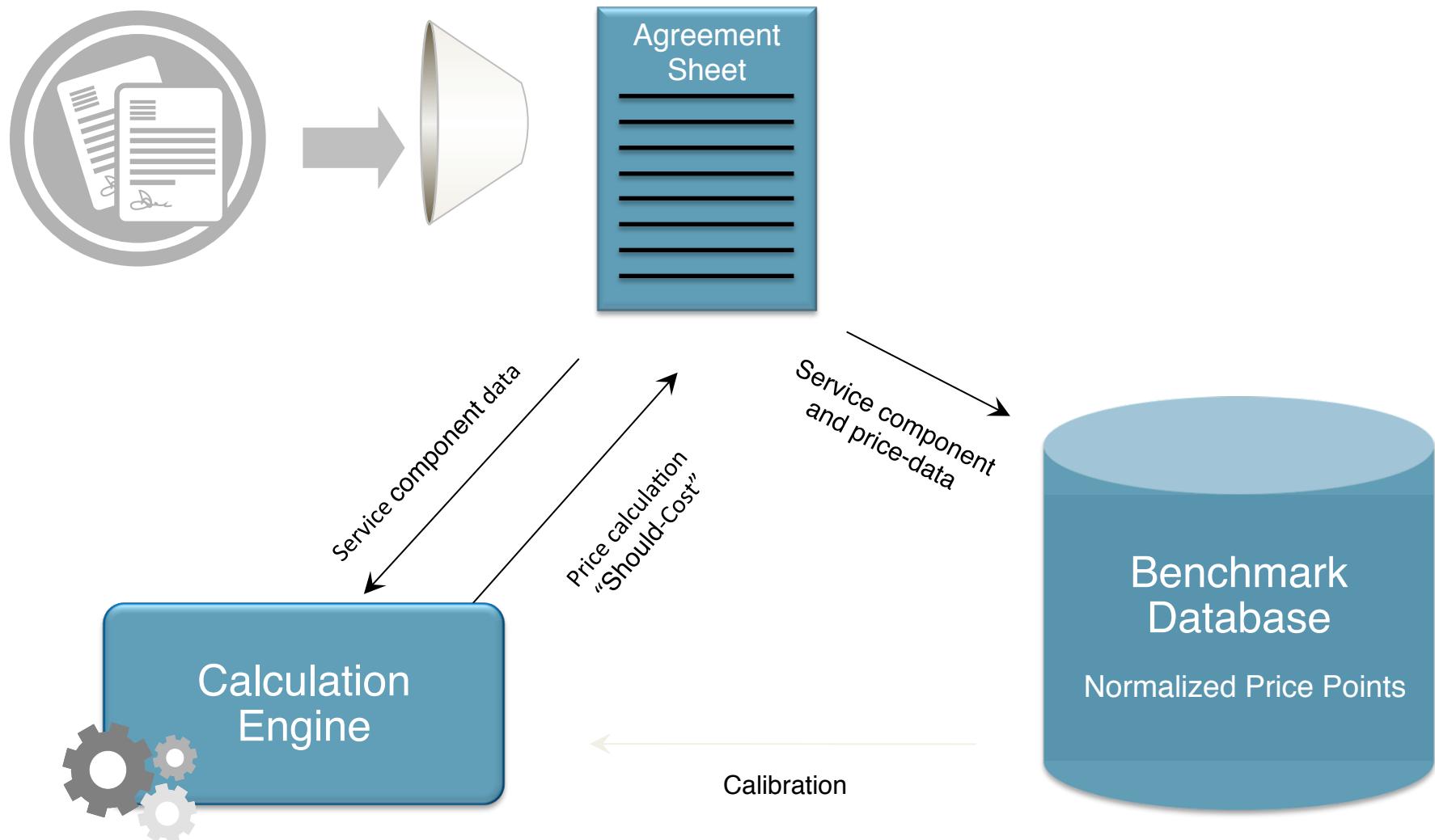
Cloud services IaaS

- Virtual Windows Server
- Virtuel Linux Server
- Storage
- Cloud Remote backup

Cloud services PaaS

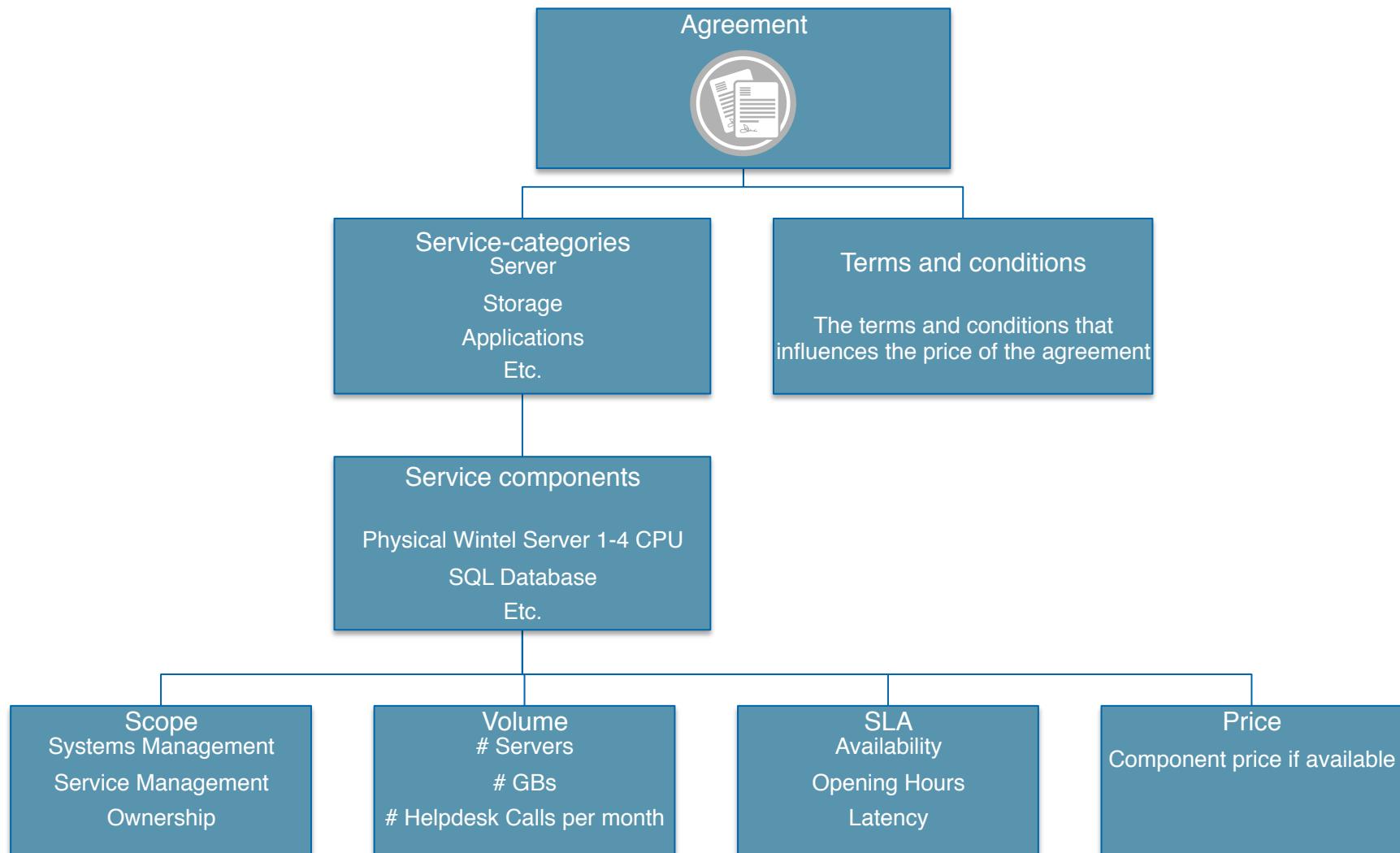
- Hosted Exchange
- Hosted mail POP/IMAP
- Hosted Sharepoint
- Azure

Benchmarking concept



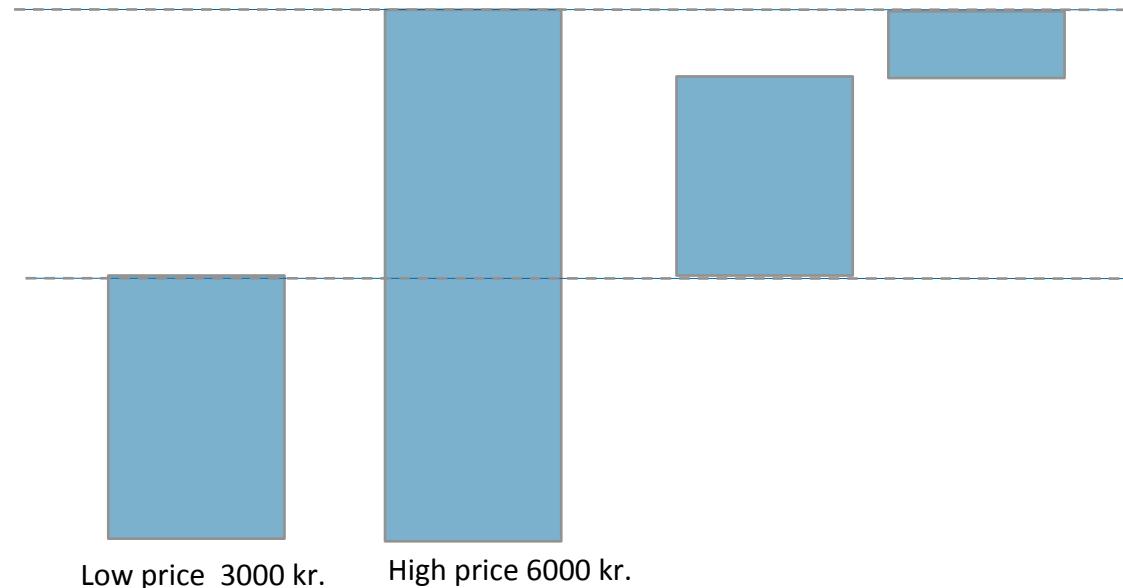
The Method

Key Elements of Agreement Decomposition



Using SLA's to calculate the price

Each Service Category has a "Low Price" and a "High Price" - depending on the SLA's. Example: Servers.



For servers we have defined threshold-values for SLA's Availability and Opening Hours. For SLA-values below the lowest threshold, the Low Price is used. For values above the highest threshold a manual calculation is carried out (peer-group comparison).

Benchmarking

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Specification of the services

| Description | Service Component - Choose from list - | Volume | | Scope | | | | Price | SLA | SLA Opening Hours (number of hours) | | | | | | |
|-------------------|-------------------------------------------|-------------------------|---------------|--------------------|--------------------|-------------|-------|-------|--------|-------------------------------------|------------------|--------|---------|-----------|----------|--------|
| | | Number of servers/racks | GB per server | Service management | Systems management | Maintenance | Tools | | | Specified Price per month | Availability (%) | Monday | Tuesday | Wednesday | Thursday | Friday |
| Production | Wintel server small - virtual (1-4 CPU) | 40 | 4 | 100% | 100% | 100% | 100% | 100% | 99,80% | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Test | Wintel server small - virtual (1-4 CPU) | 8 | 4 | 100% | 100% | 100% | 100% | 100% | 95,00% | 8 | 8 | 8 | 8 | 8 | 0 | 0 |
| Education | Wintel server small - virtual (1-4 CPU) | 8 | 4 | 100% | 100% | 100% | 100% | 100% | 95,00% | 8 | 8 | 8 | 8 | 8 | 0 | 0 |
| DMZ | Wintel Server small - physical (1-4 CPU) | 2 | 8 | 100% | 100% | 100% | 100% | 100% | 99,80% | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| App 1 environment | UNIX/LINUX server - physical (5-8 CPU) | 2 | 16 | 100% | 100% | 100% | 100% | 100% | 99,80% | 24 | 24 | 24 | 24 | 24 | 24 | 24 |

| | SERVICE MANAGEMENT | | Production | | All other servers | | n/a | | n/a | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | Included (0-100%) | Included (0-100%) | Included (0-100%) | Included (0-100%) | Included (0-100%) | Included (0-100%) | Included (0-100%) | Included (0-100%) | Included (0-100%) | Included (0-100%) |
| 1 Enterprise management – participation in the architecture and planning, and test implementation and integration, of solutions; | | | 100% | | 100% | | 100% | | 100% | |
| 2 Data management policy and practices; | | | 100% | | 100% | | 100% | | 100% | |
| 3 Application change management policies; | | | 100% | | 100% | | 100% | | 100% | |
| 4 Software license management policies; | | | 100% | | 100% | | 100% | | 100% | |
| 5 Service-level requirements definitions; | | | 100% | | 100% | | 100% | | 100% | |
| 6 Product evaluation and usability testing; | | | 100% | | 100% | | 100% | | 100% | |
| 7 Procurement – defining processes and procedures and assisting in purchase consumables (such as tapes). | | | 100% | | 100% | | 100% | | 100% | |
| 8 Asset management – hardware inventory management; | | | 100% | | 100% | | 100% | | 100% | |
| 9 Software inventory management; | | | 100% | | 100% | | 100% | | 100% | |
| 10 Software configuration management; | | | 100% | | 100% | | 100% | | 100% | |
| 11 Financial management of leases or depreciation; | | | 100% | | 100% | | 100% | | 100% | |
| 12 Security services – security policy development, incident tracking, intrusion detection, compliance management and antivirus management. | | | 100% | | 100% | | 100% | | 100% | |
| 13 Service management – reports and metrics (none, low, medium and high), chargeback (none, low, medium and high), and network charges to customer sites. | | | 100% | | 100% | | 100% | | 100% | |
| 14 Disaster/recovery (DR) planning – planning and testing support | | | 100% | | 100% | | 100% | | 100% | |

The Method

The multiplicator is calculated from the terms and conditions

| Capacity-flexibility | Cap at 80% of agreement | Cap at 50% of agreement | Unlimited downward flexibility |
|---------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| The complexity of the pricemodel | Follows standard pricing parameters | Follows non standard pricing parameters | |
| Design authority including refresh strategi | Supplier | Select demands described in the contract | Client |
| Complexity - integration | No mainframe, integrations compared to systems 2:1 (or no description), max two database platforms | No mainframe, number of integrations compared to systems 4:1 or more than two database platforms | Mainframe plus midrange closely integrated (more than 2:1 integration:systems) |
| | | Mainframe plus midrange with few integrations | |
| Governance - non standard setup | Central agreement with central governance | Decentral (national) governance | |
| Reporting | Follows the suppliers setup on standard SLA's | Special reporting which requires extra measurement | |
| Benchmarking | No benchmarking | Benchmarking with the ability to renegotiate/readjust | Automatic price adjustment as a consequence of benchmarking |
| Exit - commitment period | 4 years binding | 3-4 years binding | Less than 3 years binding |
| Punitive provision | Punitive provision maximum 10% of monthly fee | Punitive provision between 10 and 25% of monthly fee | Punitive provision above 25% of monthly fee |
| Location of datacenter | Not specified | Europe | Denmark |
| Location of personnel for oversight | Not specified | Europe | Denmark |
| Special security demands | None | Doubling of datacenters, hot switch etc | Military/intelligence |

Normalization

Application maintenance contracts are normalized according to the variables that drives cost

Normalization variables

Complexity – system landscape complexity

Installation size – modules, applications

Operational maturity - baselining

Ressource composition – offshore vs. local

Contract size

Cloud

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Hybrid cloud offerings

New services – Narrow scope og lower price

- ! Network operators entering the market with an industrialized and highly scalable setup
- ! Highly competitive price and should be considered as a sourcing alternative for larger virtualized installations
- ! The service-scope is narrow compared to “classical outsourced services”
- ! This is partly compensated by an automated and policy driven ressource allocation.

Case: Industrialiseret outsourcing

Retail Client

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| | Omfang og SLA | Price |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Conventional setup | <ul style="list-style-type: none">Scope<ul style="list-style-type: none">130 Physical wintel servers650 Virtual wintel serversSLA<ul style="list-style-type: none">Availability 99,5%Opening Hours<ul style="list-style-type: none">Monday – Friday = 16 hoursSaturday = 13 hoursSunday = 8 hours | <ul style="list-style-type: none">• 2,85 – 3,15 DKK/month |
| Hybrid cloud | <ul style="list-style-type: none">Scope<ul style="list-style-type: none">130 Fysiske wintel servere i konventionelt setup650 Virtuelle wintel servere<ul style="list-style-type: none">Limited Service og Systems ManagementESX redundantSLA<ul style="list-style-type: none">Availability 99,9 | <ul style="list-style-type: none">• 1,32 – 1,46 mDKK/month |

Industrialised outsourcing services

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Industrialized setup – (Red) not included (Yellow) policy baseret setup

| Service Management | Systems Management |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Participation in the architecture and planning, and test implementation and integration, of solutions | System administration services – ID management resource permissions |
| Data management policy and practices | Problem determination and root cause analysis |
| Application change management policies | Help desk support Level 3 (excludes application support) |
| Software license management policies | Preventive software maintenance |
| Service-level requirements definitions | Performance management analysis |
| Product evaluation and usability testing | Performance management and tuning |
| Procurement – defining processes and procedures and assisting in purchase consumables (such as tapes). | Capacity trending analysis |
| Asset management – hardware inventory management; software inventory management; software configuration management; and financial management of leases or depreciation | Capacity management – policy based |
| Security services – security policy development, incident tracking, intrusion detection, compliance management and antivirus management | Storage management – policy based |
| Service management – reports and metrics (none, low, medium and high), chargeback (none, low, medium and high), and network charges to customer sites | Change management |
| Disaster/recovery (DR) planning – planning and testing support | 24/7 monitoring |
| | Data backups and backup storage management (system); and off-site, backup storage |
| | Installations, moves, adds, changes (IMAC) |
| | Physical IMAC activity and logical IMAC activity |
| | Electronic software distribution to servers |

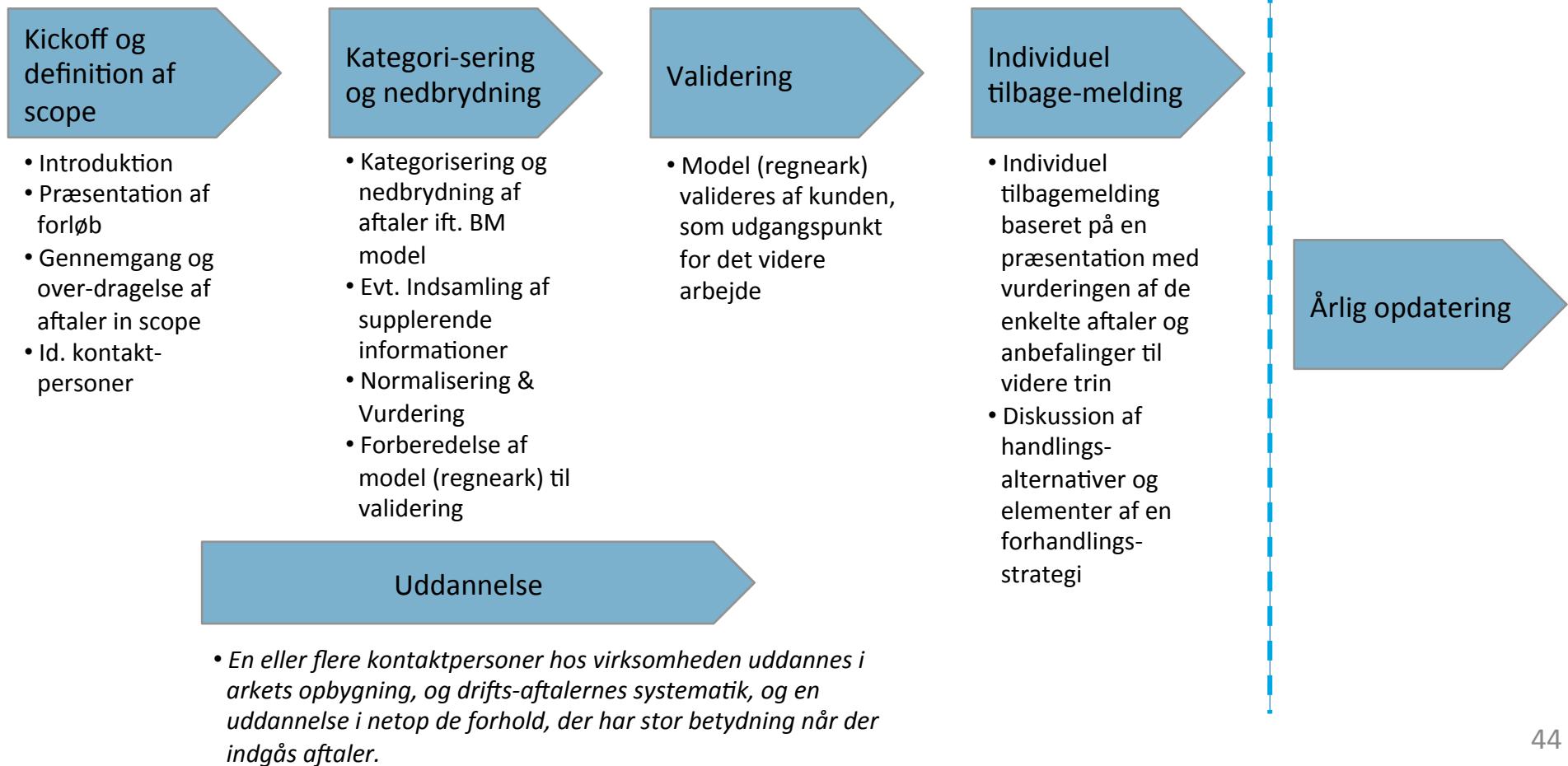
Relevante Quarterly Analytics artikler om aktuelle trends.

- Insourcing – flere kunder trækker infrastrukturen tilbage efter en længere periode med outsourcing. Dette sker typisk for at gennemføre større moderniseringer og opnå kontrol.
- Benchmarking vinder indpas, men der er stadig langt til USA hvor op mod 80% af alle aftaler har en benchmark-klausul
- Aftalevilkår bliver i stigende grad genstand for forhandling – aftalevilkår koster penge og flere kunder bliver opmærksomme på omkostningerne knyttede til specialiserede krav
- Fast track udbud vinder indpas
- SAP i skyen – SAP kunder bør løbende følge udviklingen i SAP-Cloud tilbud, da disse vil kunne give betydelige reduktioner for nogle kunder
- Applikationsvedligehold overgår i stigende grad fra at være aftale med fast årlig betaling til at være forbrugsafregnede

Fokusområder for servicefællesskaber

- Hvis målet er omkostningsreduktion (eller blot markedskonforme priser) er standardisering en meget vigtig forudsætning
- Hvis målet er stabilitet er standardisering en forudsætning
- Vær opmærksom på, at prismodellen (charge-back struktur) er et meget væsentligt styringsinstrument
- Erfaringen viser, at servicefællesskaber kan levere stabil drift til konkurrencedygtige priser hvis de:
 - Har styr på omkostninger og markedspriser
 - Har kritisk masse (typisk over 500 servere)
 - Sørger for at standardisere, konsolidere og virtualisere infrastrukturen hurtigt
 - Arbejder med et begrænset sæt af SLA'er
 - Driver intern standardisering af processer
 - Professionaliserer arbejdet med kunderelationer
 - Prissætter specialydeler i forhold til faktiske ekstra omkostninger (som en leverandør ville gøre det)

Benchmarkøvelsens forløb



Targetpricing

Kickoff og definition af scope

- Introduktion
- Præsentation af forløb
- Gennemgang af it-strategi og afledte krav til outsourcing

Udarbejdelse af scenarier

- Definition af mulige sourcing-scenarier
- Fastlæggelse af aftale vilkår og forudsætninger
- Beskrivelse af krav og behov for de enkelte ydelseskomponenter
- Detaljering af scenarier i forhold til model

Validering

- Model (regneark) valideres af kunden, som udgangspunkt for det videre arbejde

Individuel tilbage-melding

- Individuel tilbagemelding baseret på en præsentation med vurderingen af de enkelte scenarier og anbefalinger til videre trin
- Diskussion af handlingsalternativer og elementer af sourcing strategi

Uddannelse

- *En eller flere kontaktpersoner hos virksomheden uddannes i arkets opbygning, og drifts-aftalernes systematik, og en uddannelse i netop de forhold, der har stor betydning når der indgås aftaler.*

Benchmarking - driftsaftaler

Benchmarken giver svaret på spørgsmålet: hvad bør denne aftale koste netop nu.

Kunden overdrager aftaler, fakrurering og CMDB til Zangenberg Analytics , der herefter foretager nedbrydning, normalisering og beregning

Kalendertid: 2-3 uger

Kundens indsats: 2-3 mandedage

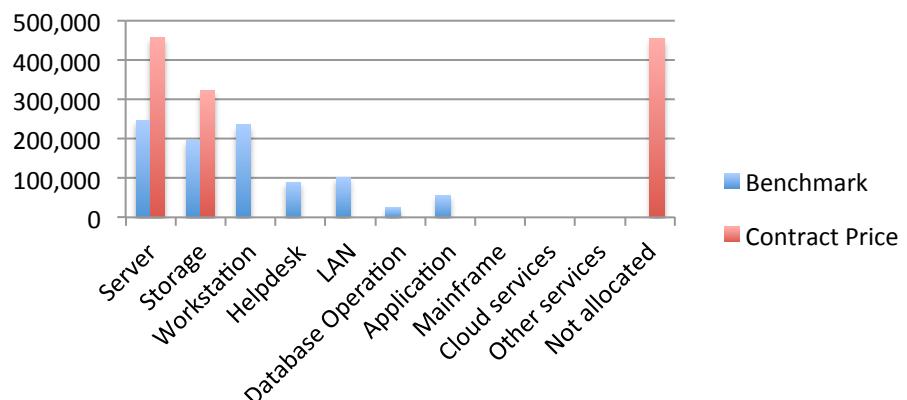
Leverance: Udførlig rapport og præsentatopn

Benchmark af en aftale: DKK 130.000

Benchmark af 5 aftaler: DKK 350.000

| Element | Benchmark | Contract Price | Difference |
|-----------------------|-----------|----------------|------------|
| Server | 245.576 | 456.098 | 210.522 |
| Storage | 195.544 | 321.887 | 126.343 |
| Workstation | 234.765 | | -234.765 |
| Helpdesk | 89.554 | | -89.554 |
| LAN | 100.765 | | -100.765 |
| Database Operation | 25.677 | | -25.677 |
| Application Operation | 56.098 | | -56.098 |
| Mainframe Operation | | | n/a |
| Cloud services | | | n/a |
| Other services | | | n/a |
| Not allocated | | 453.667 | 453.667 |
| TOTAL | 947.979 | 1.231.652 | 283.673 |

Total pr Year **11.375.748** **14.779.824** **3.404.076**



Targetpricing

Targetpricing giver svaret på spørgsmålet:
hvad er markedsprisen på denne
potentielle aftale.

Sammen med kunden udarbejdes et antal
scenarier for den mulige fremtidige aftale.
Disse beskrives i detaljer og Zangenberg
Analytics beregner aftaleprisen

Kalendertid: 1 uge

Kudnens indsats: 1-2 mandedage

Leverance: Udførlig rapport og præsentation pr
scenarie

Targetpricing – 5 scenarier: DKK 65.000

5 ekstra scenarier: DKK 35.000

| Element | Benchmark |
|-----------------------|-----------|
| Server | 245.576 |
| Storage | 195.544 |
| Workstation | 234.765 |
| Helpdesk | 89.554 |
| LAN | 100.765 |
| Database Operation | 25.677 |
| Application Operation | 56.098 |
| Mainframe Operation | |
| Cloud services | |
| Other services | |
| Not allocated | |
| TOTAL | 947.979 |

Total pr Year **11.375.748**

