

UC2006

OSISOFT USER CONFERENCE

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Wide Area Water Supply Management

Information and Control
at your fingertip

J. Heersche – Vitens
H. Läken - Yachtgroup
J. Timmer - PMConsult

Wide Area Water Supply Management

Information and Control
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Jan Heersche – Vitens
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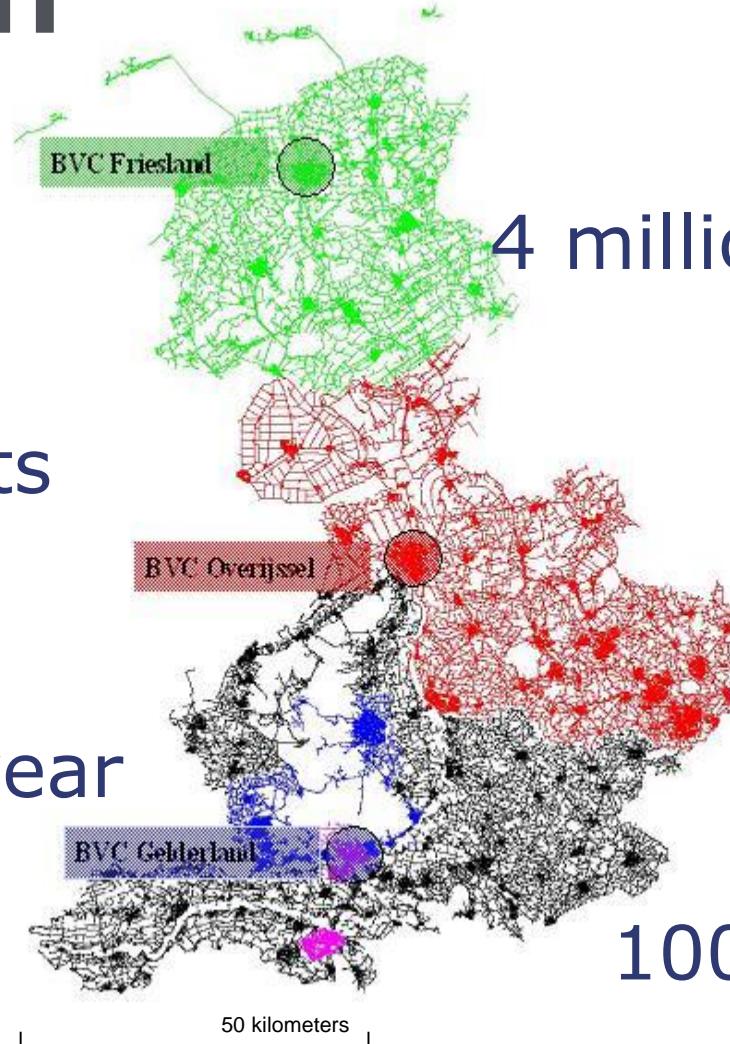
Situation

250 objects

260 million m³/year

4 million consumers

100.000 I/O



Vitens is a fusion product

- In 2000: 3 companies
- In 1995: 5 companies
- In 1990: 8 companies
- Etc.
- Installed PA-base is completely different
(hardware, software, age)

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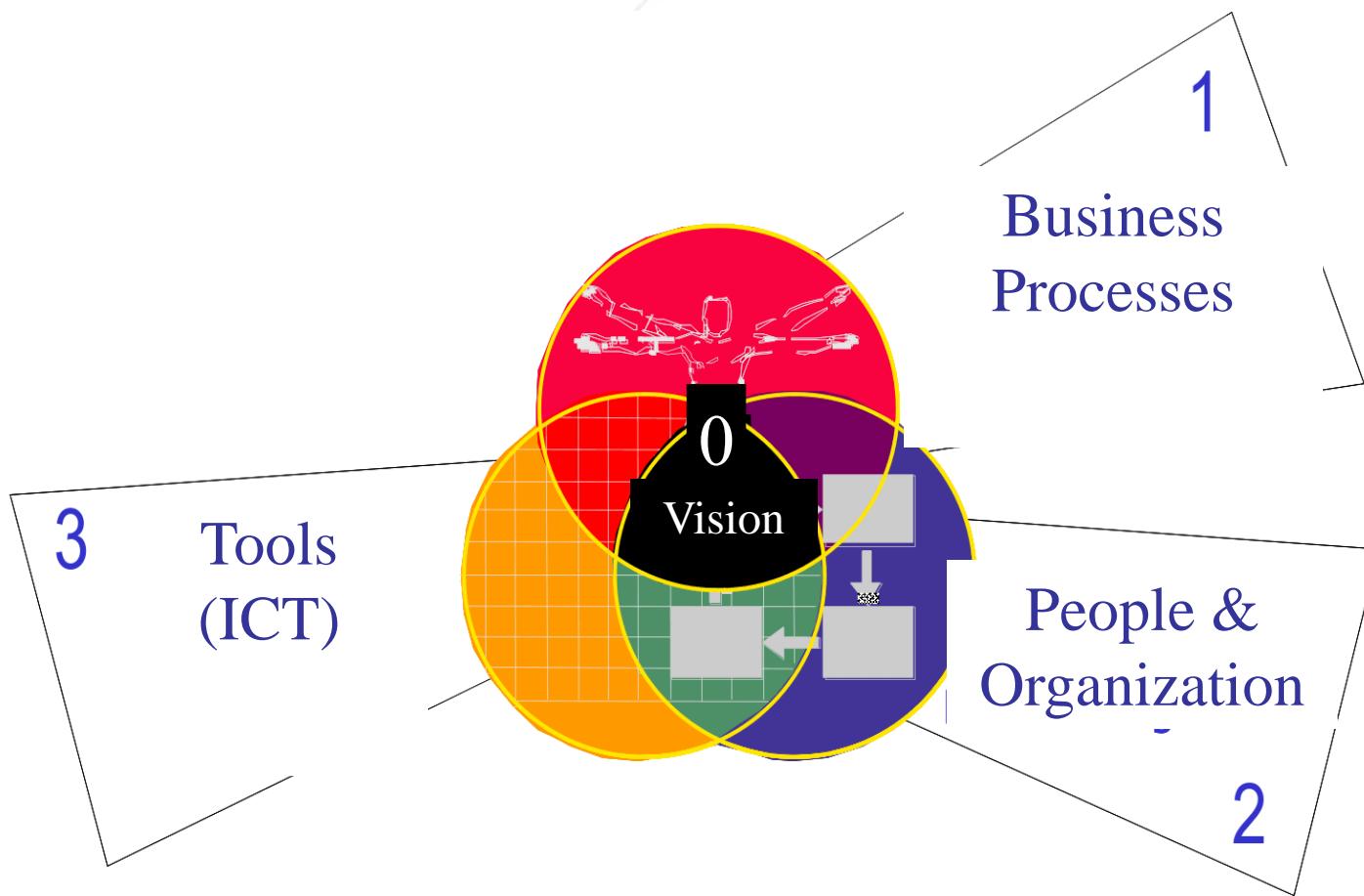
Objectives

- Fast Failure Response
- Optimisation
- Uniformity
- Rt based Management Information
- Information Reference
- Integration processes (SAP, GIS, LIMS)

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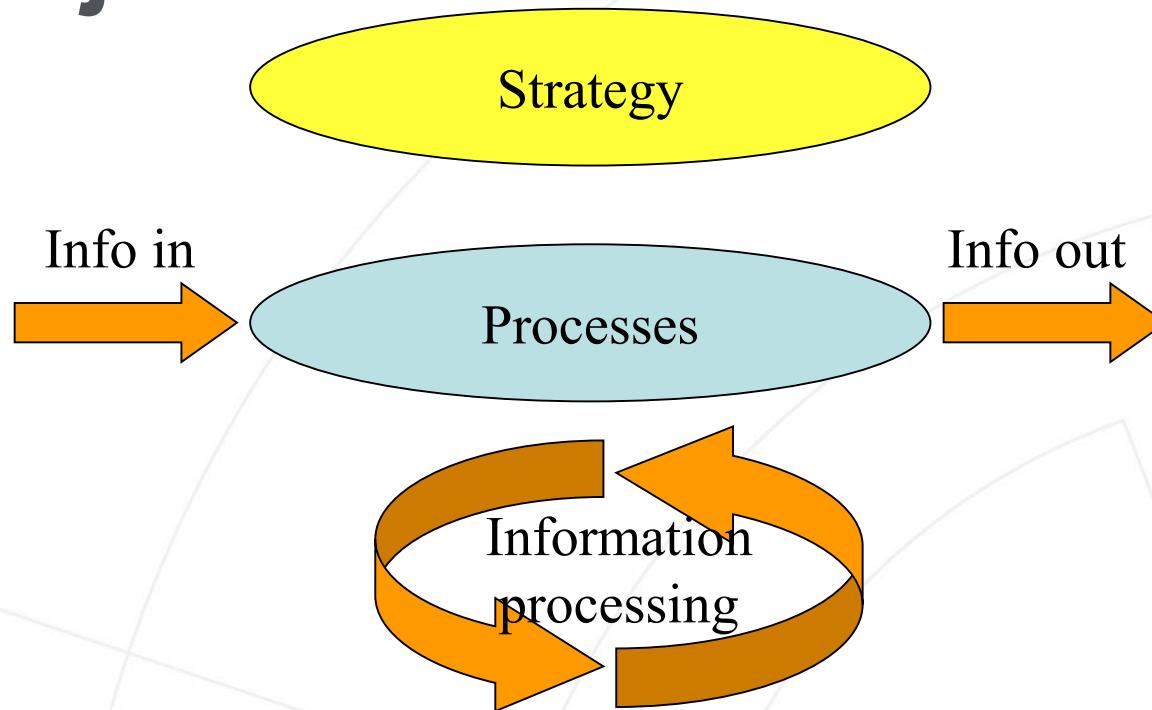


Process project

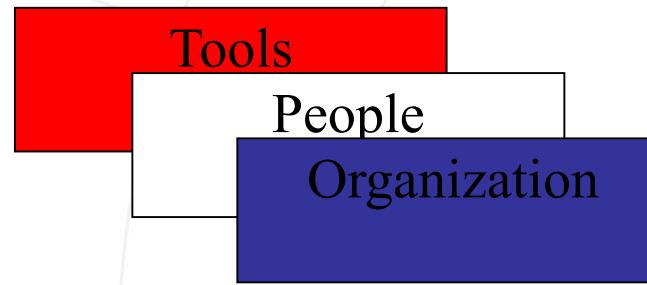


TIME

DCC project



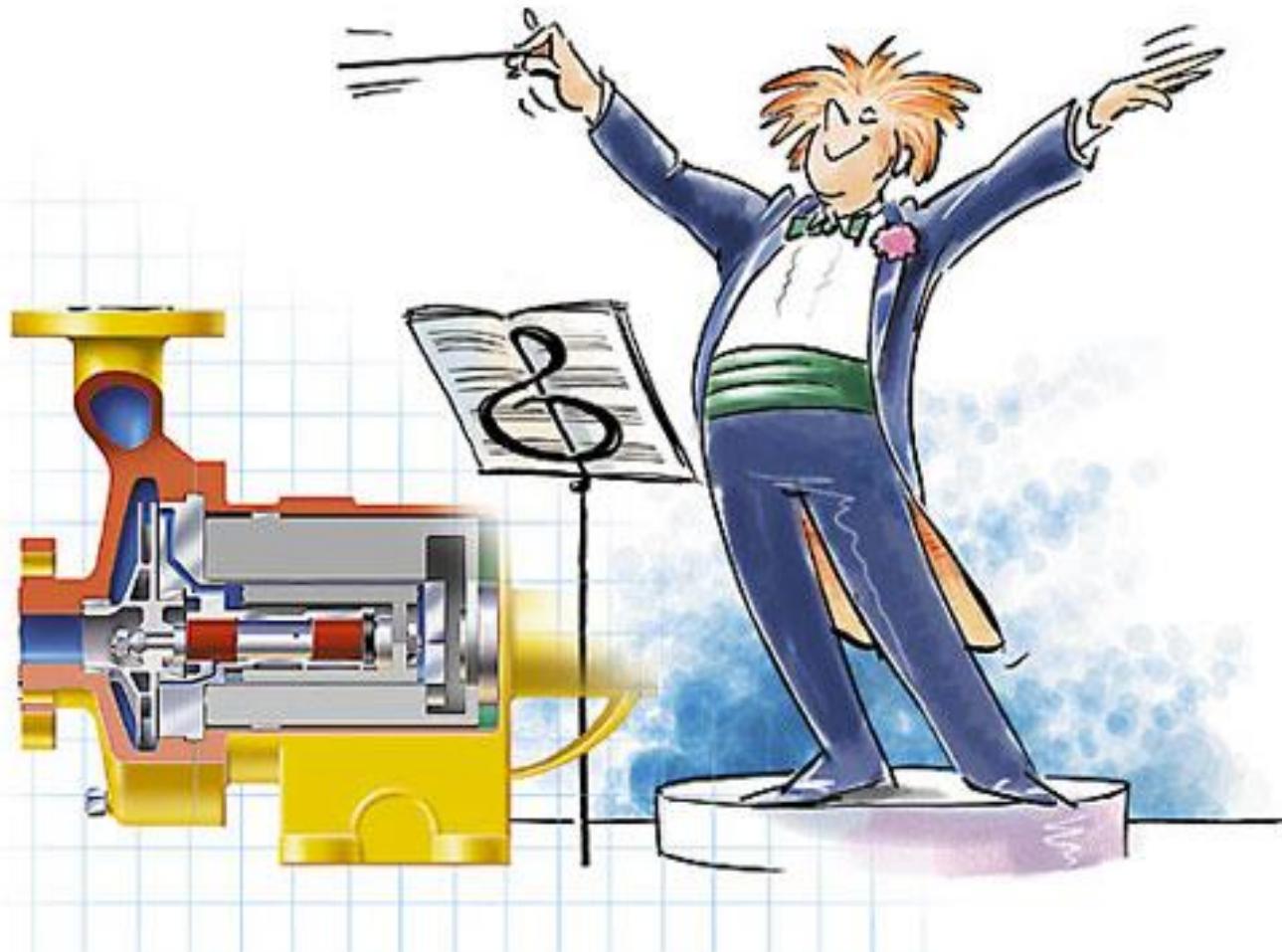
Blue Prints:



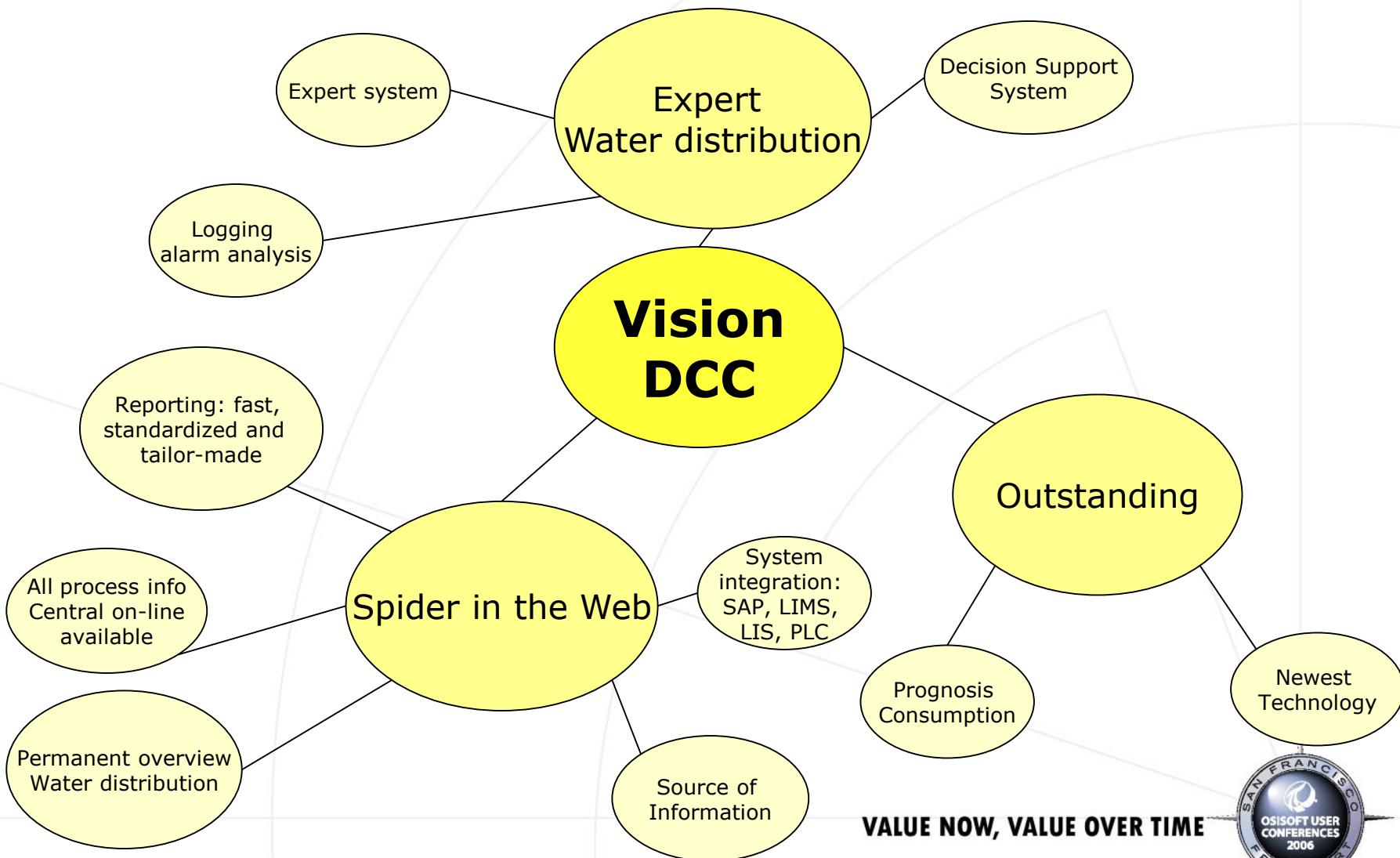
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Vision: conductor water production & distribution



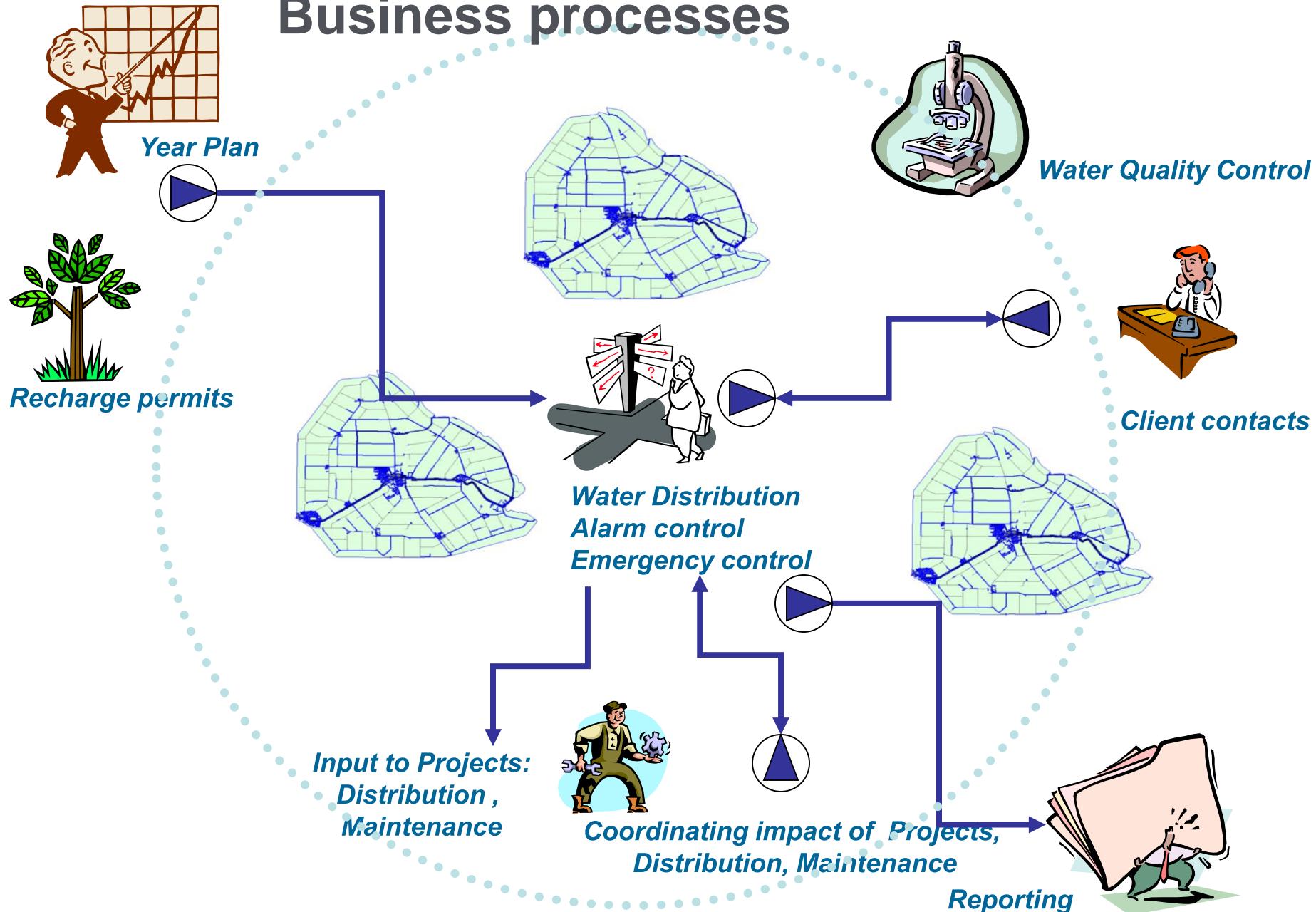
Vision DCC

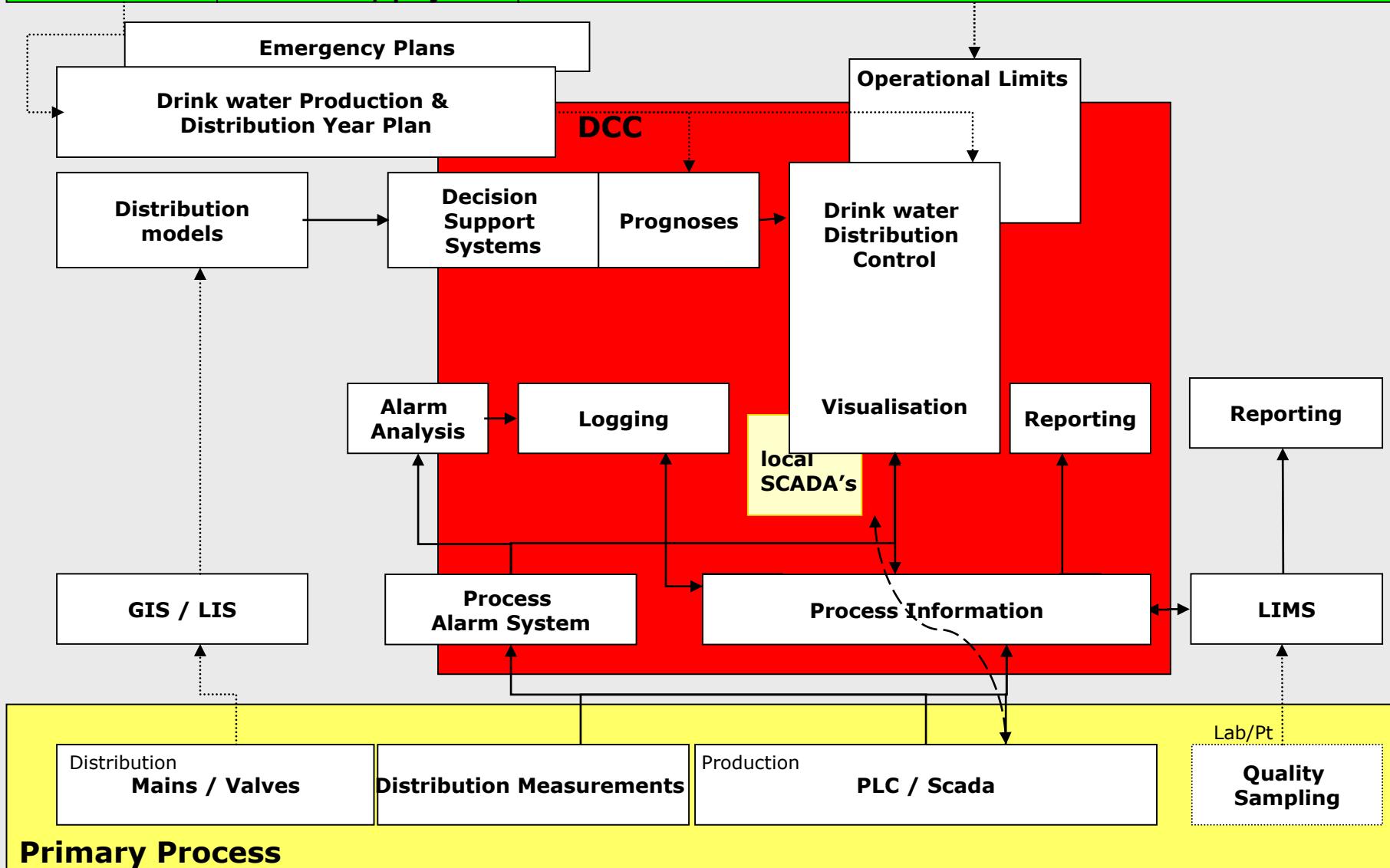


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Business processes





OSIsoft modules versus Vitens Funcionality

Nr.	Product	Module		ProcesInfo	Drinkwater Distribution Control / Visualisation	Decision Support system / Prognoses	Logging	Reporting	Operational Limits	Alarm analysis
1.	RtBaseline									
1.1	Componenten van RtBaseline									
1.2	PI Enterprise Server									
1.3	PI SQL									
1.4	PI Performance Equations (PI PE)									
1.5	PI Recalculator									
1.6	PI Totalizer									
1.7	PI Alarm									
1.8	PI Module Database									
1.9	PI System Management Tools (PI SMT)									
1.10	PI Advanced ServerApps									
1.10.1	PI Autopoint Sync									
1.10.2	PI Batch									
1.10.3.	PI Real Time SQC									
1.11.	Interfaces and COM Connectors									
1.11.1.	PI Interfaces									
1.11.2.	COM Connectors									
1.12.	PI OPC / HDA SERVER									
2.	RTAnalytics									
2.1.	Componenten van RtAnalytics									
2.2.	Advanced Computing Engine									
2.3.	Analysis Framework									
2.4.	Data Access Package									

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OSIsoft modules versus Vitens Funcionality

Nr.	Product	Module						
			ProcessInfo	Drinkwater Distribution Control / Visualisation	Logging	Decision Support system / Prognoses	Reporting	Operational Limits
2.5.	Client applications							
2.5.1.	PI Processbook							
2.5.2.	PI Datalink							
2.5.3.	PI BatchView							
2.5.4.	PI ActiveView							
2.5.5.	PI ProfileView							
2.5.6.	PI SQC Client							
2.5.7.	PI AlarmView							
2.5.8.	PI Control Monitor	X						
2.6.	Sigmafine							
3.	RTPortal							
3.1.	Interactive Configurable Environment / RtPortal WebParts							
4.	Overige Producten							
4.1.	Rlink							
4.2.	Processpoint	X						
4.3.	RtReports	?						
5.4.	IT Monitor							

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Why Architecture

- Decision Support
- Complexity of Information services
- Change management: overview of Information Services consequences
- Synergy Advantages
- Service Oriented Architecture can also be used in the Future

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Targets Vitens

- Standardization of Processes
- Optimisation
- Fast realisation of Changes and new Technologies
- Less costs ICT

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Prerequisites ICT

- Standardisation
 - Standard software applications
 - No tailor-made solutions
 - No home-made developments
- Information is stored in only one data-base
- 'Proven solutions'
- Future proof
- Integral part of Vitens enterprise architecture

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Policy Vitens

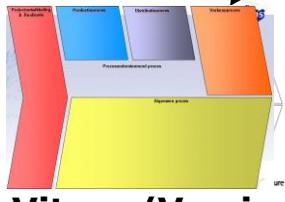
- SAP unless... and RtPM unless...
- Each (Process)Functionality supported by one and only one application
- Information allocated to one source
- Minimize interfaces
- Only certified interfaces
- No des-investments in process control
- Standardisation

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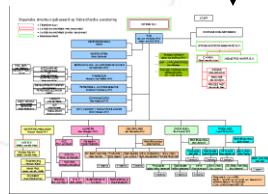


Architecture Framework

		Businessdoelen					
Business architectuur		Informatie architectuur		Technische architectuur			
	Proces	Organisatie	Gegevens	Applicaties	Middleware	Platform	Netwerk
Algemene principes	Deel 3 Informatieplan						
Concrete beleidslijnen	I.K.	P&O	Deel 4	Informatieplan	Deel 6	Informatieplan	
Modellen							



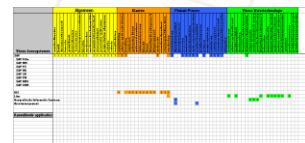
Vitens/Vewin process model



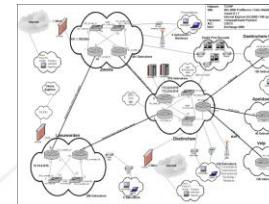
Organisational scheme



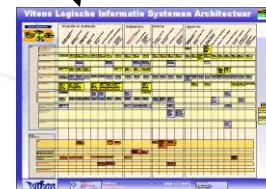
Business Data



Information Source



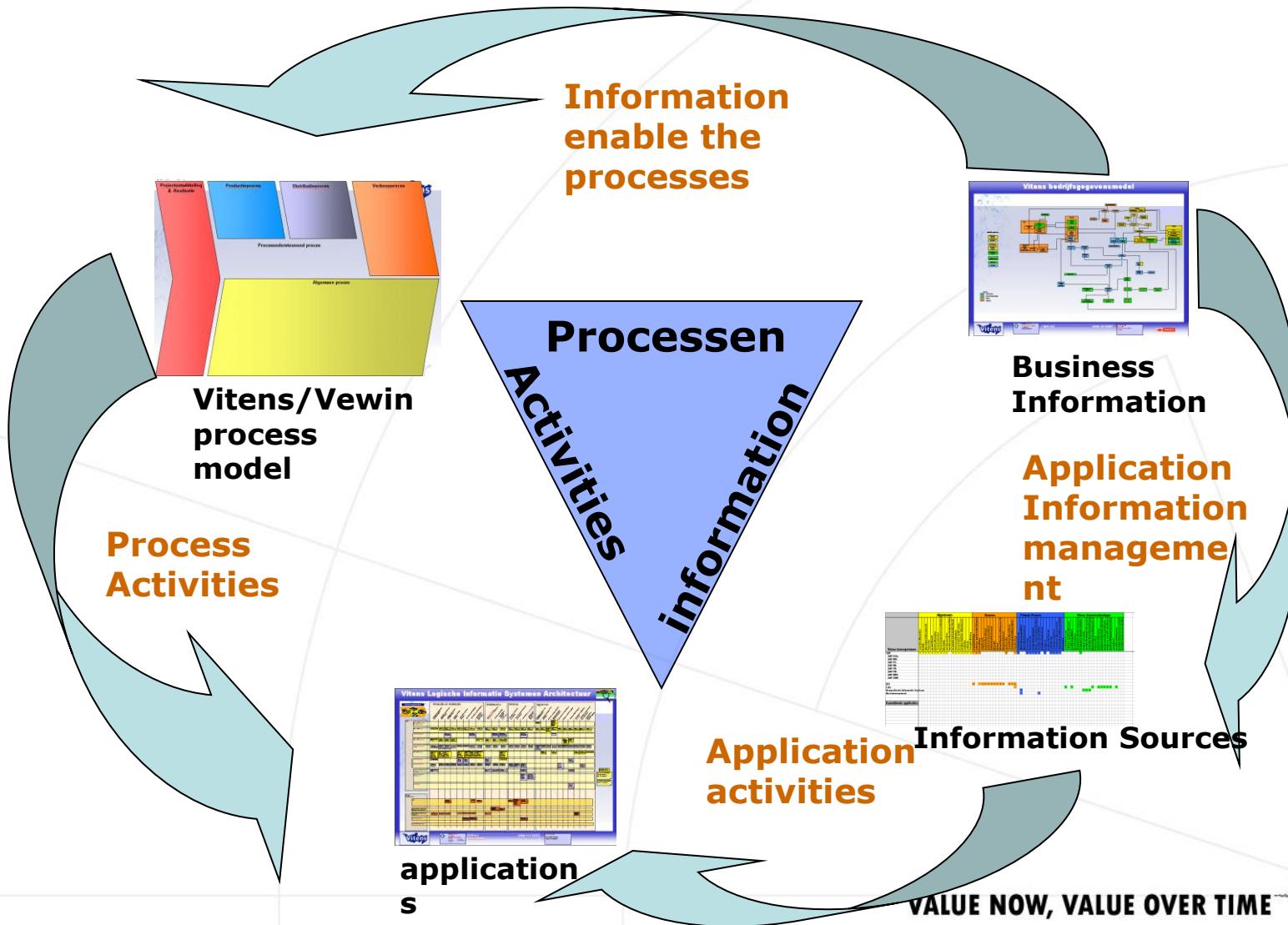
Technical infrastructure



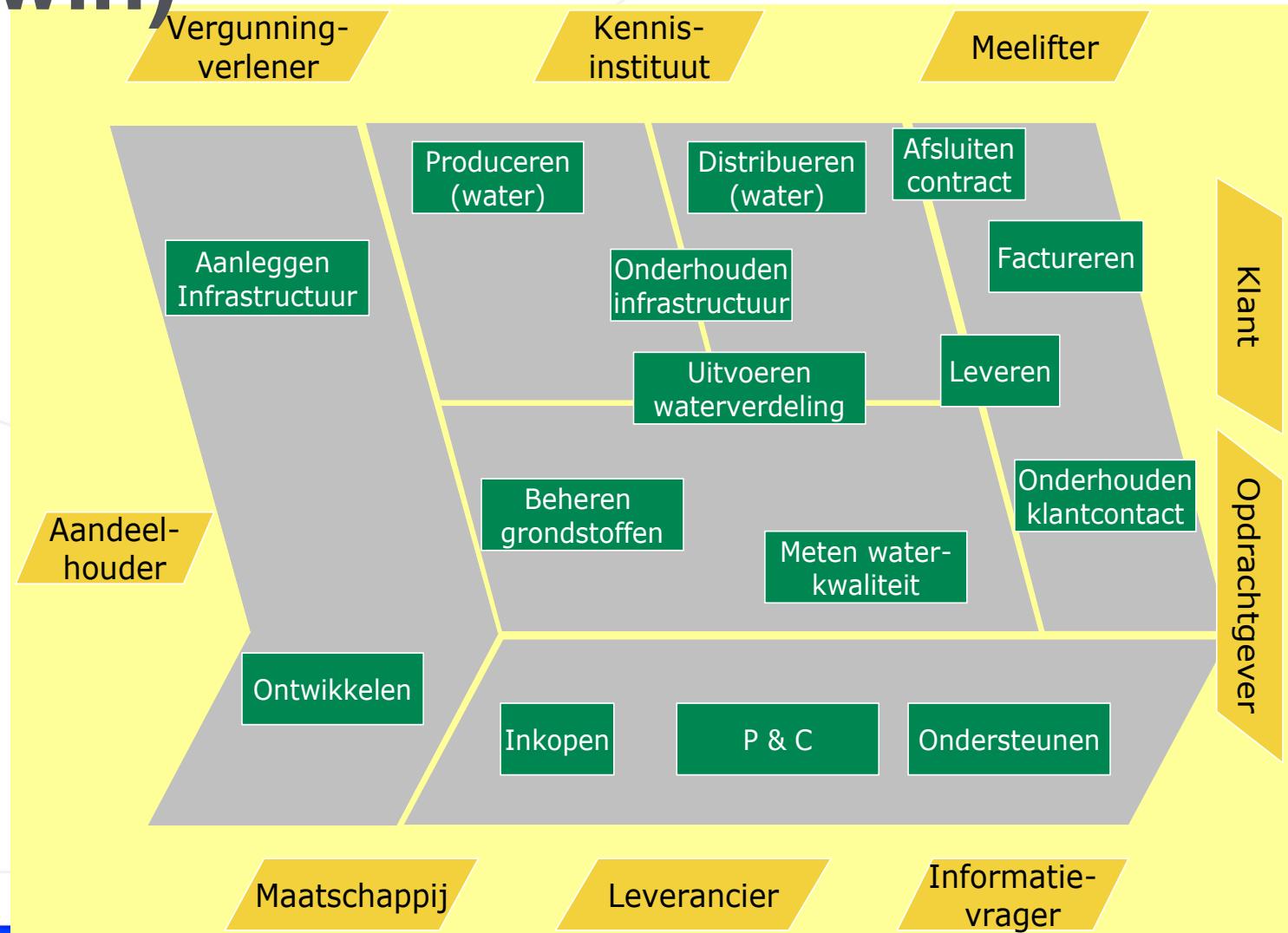
Application Landscape
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Consistency between models



Vitens Business Architecture (Vewin)

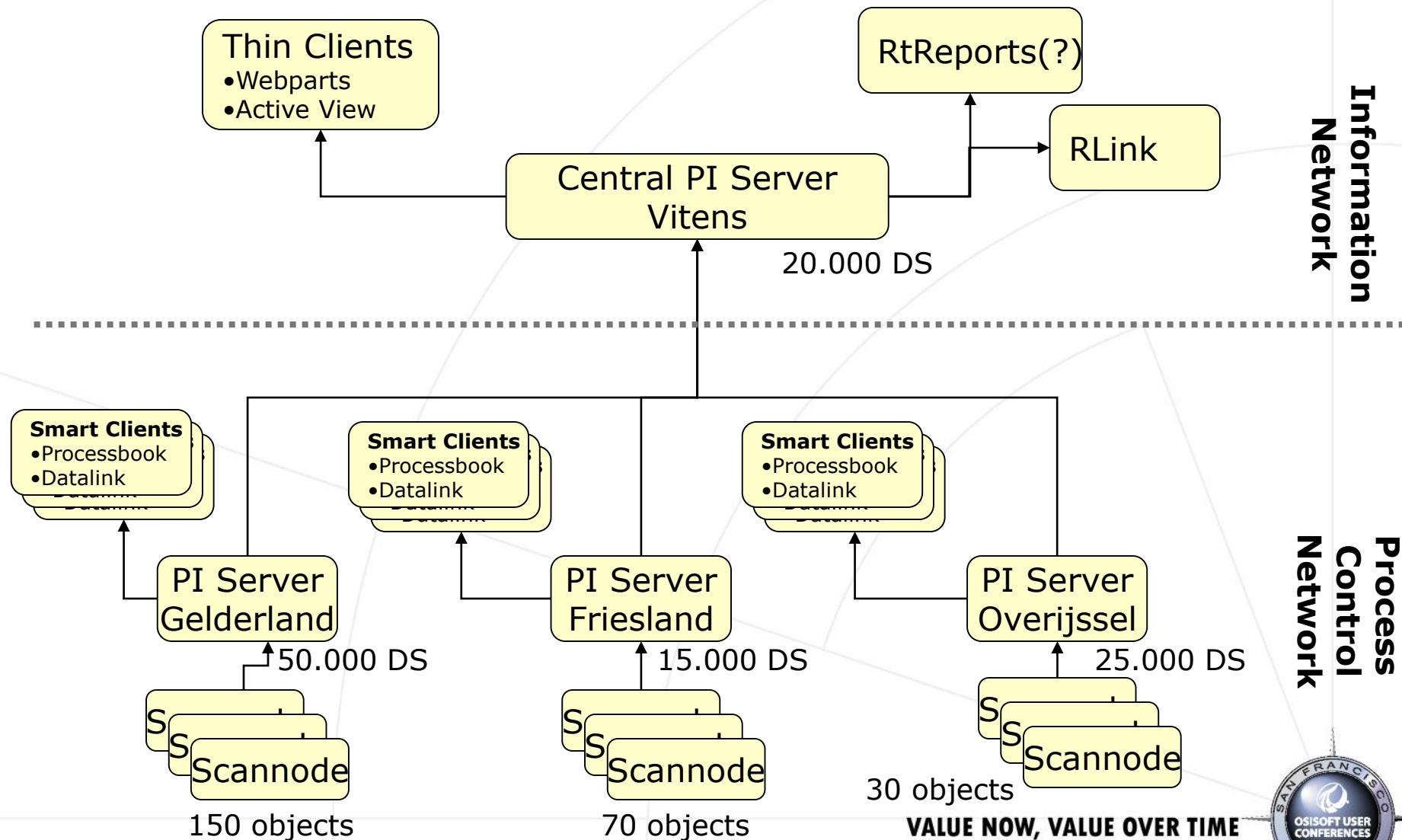


Client / Proces Matrix

Klanten Proces / gegevensmatrix



System Architecture



Global planning Vitens

Q4 2005

Proof
of
Concept

Q1 2006

Implementation Gelderland
Including Visualisation & Reporting

Q2 2006

Implementation Friesland
Including Visualisation & Reporting

Q3 2006

Implementation Overijssel
Including Visualisation & Reporting

Q4 2006

Building & Implementing functionality

- Decision Support
- Prognoses
- Logging
- Alarm Analysis
- Advanced reporting
- Drinkwater Distribution Control
- Operational Limits