



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

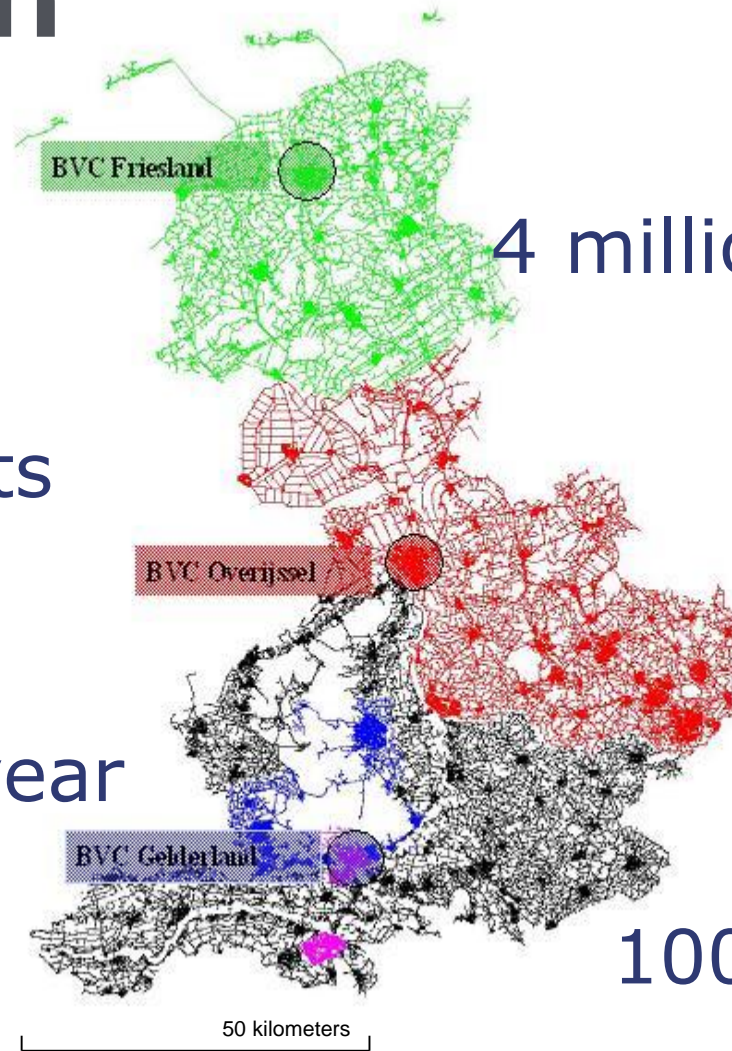
Information and Control
at your fingertip

Jan Heersche – Vitens
H.R. Läken - Yachtgroup
J.L. Timmer - PMConsult

VALUE NOW, VALUE OVER TIME



Situation



4 million consumers

250 objects

260 million m³/year

100.000 I/O

PER TIME



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)

VALUE NOW, VALUE OVER TIME



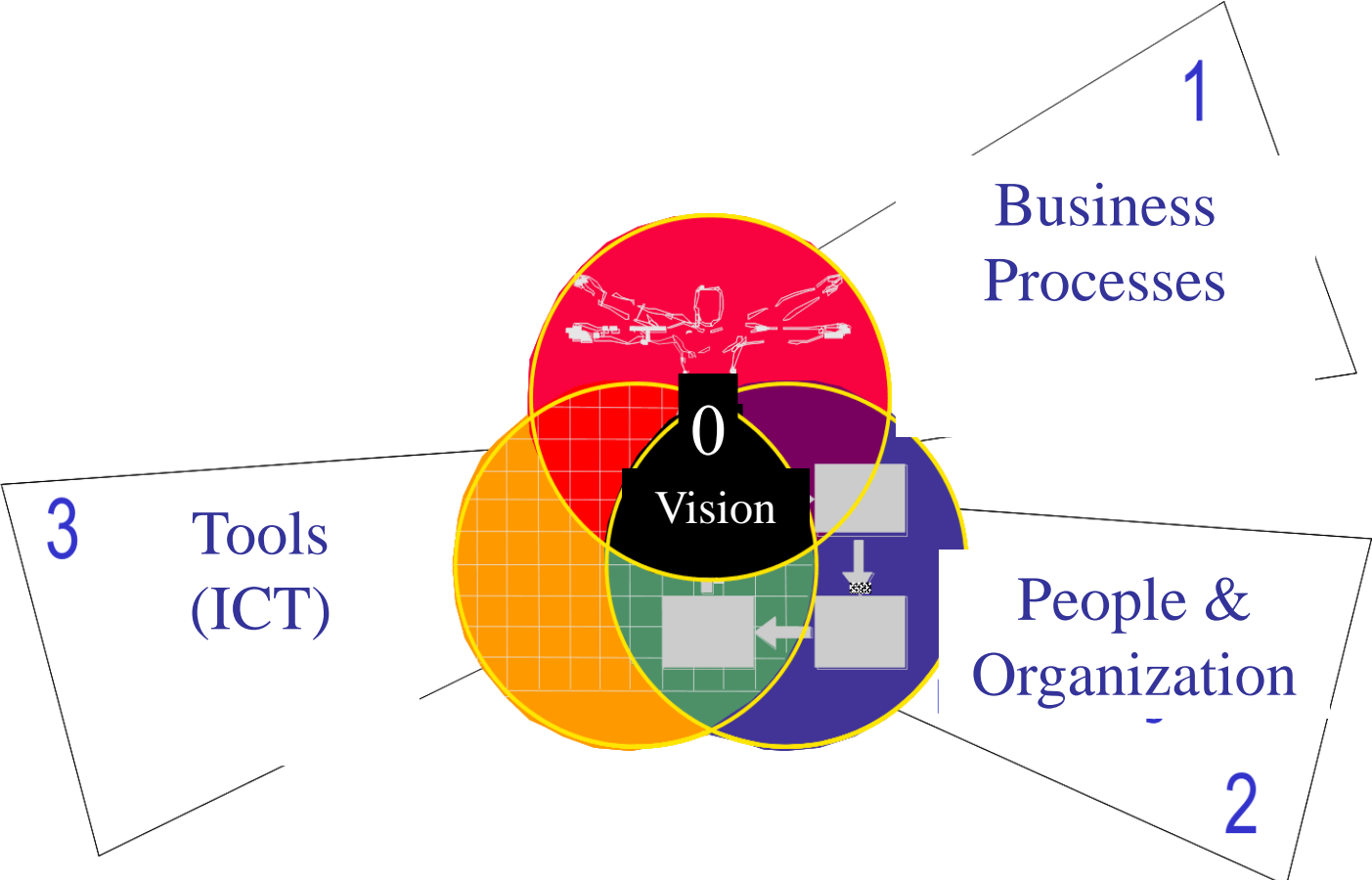
Objectives

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

VALUE NOW, VALUE OVER TIME



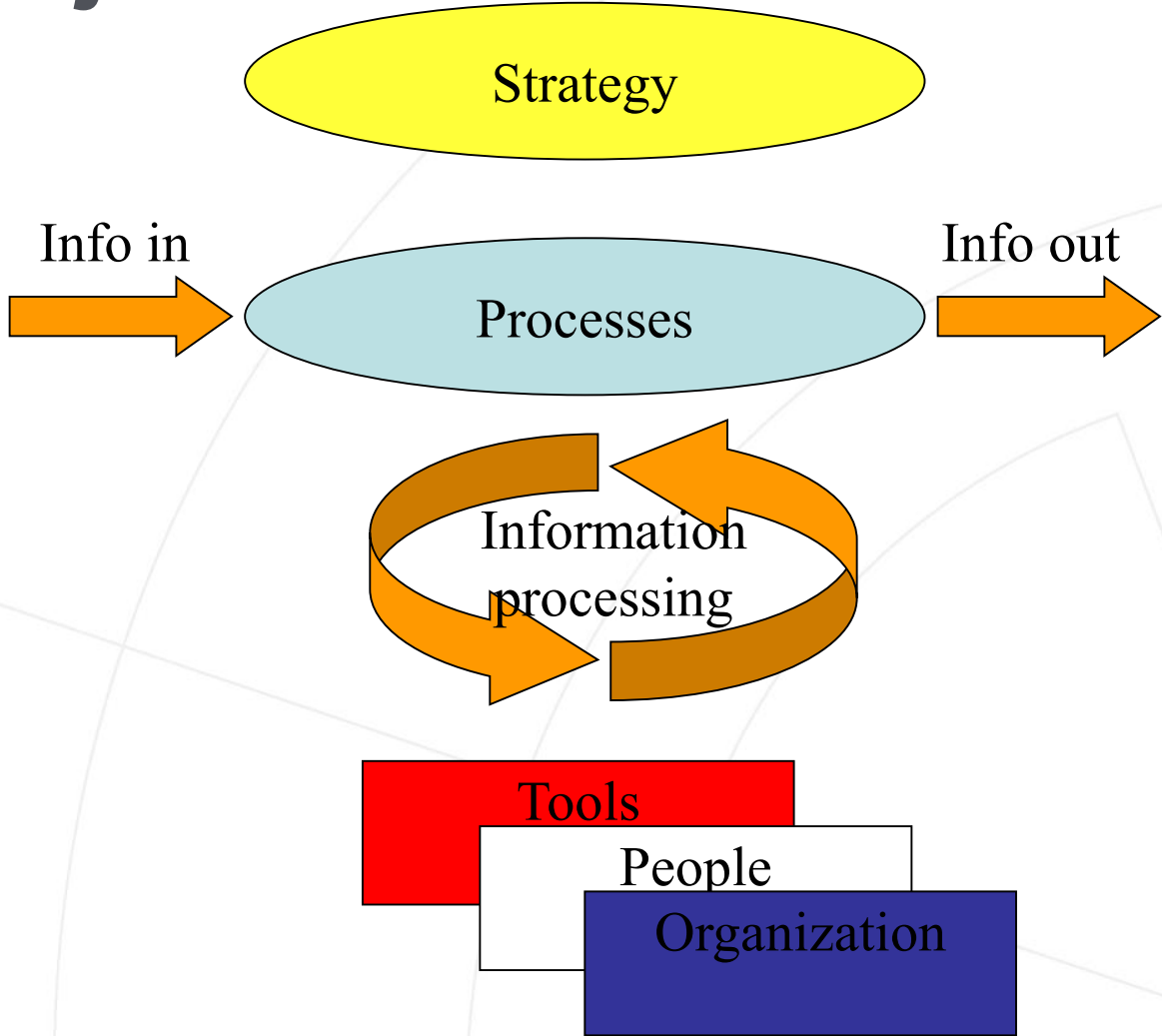
Process project



TIME



DCC project



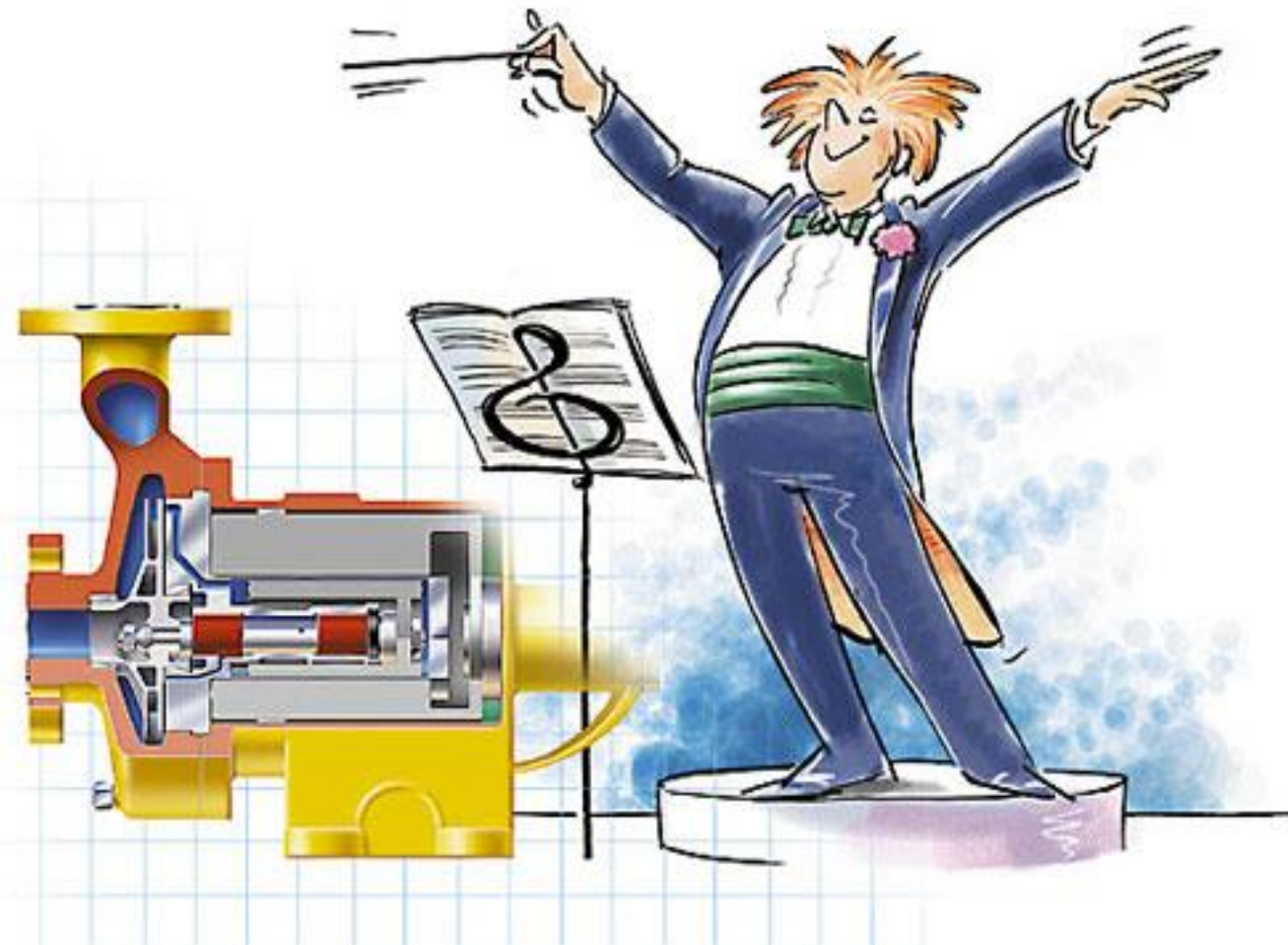
Blue Prints:

Transition and
Realisation

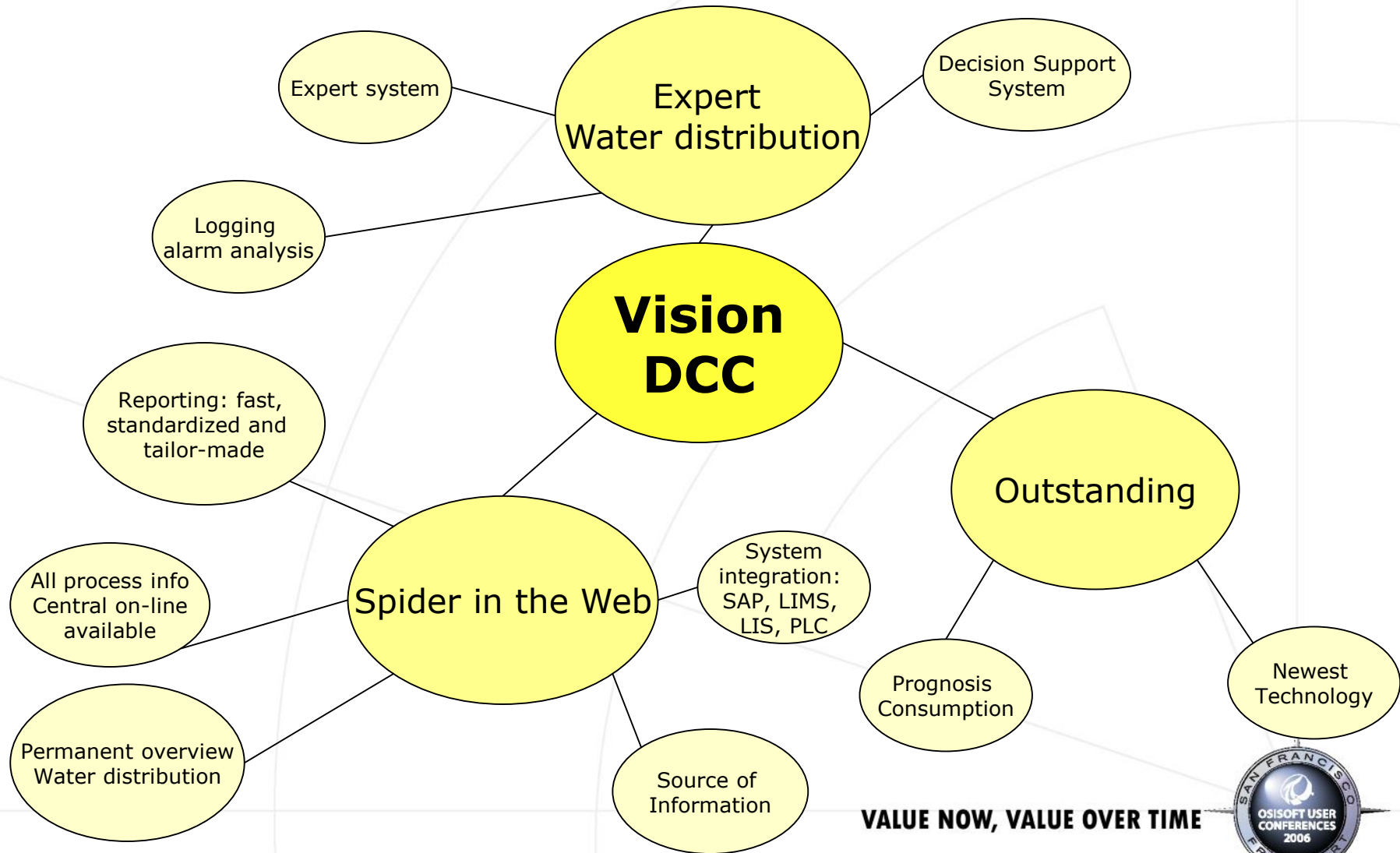
VALUE NOW, VALUE OVER TIME



Vision: conductor water production & distribution



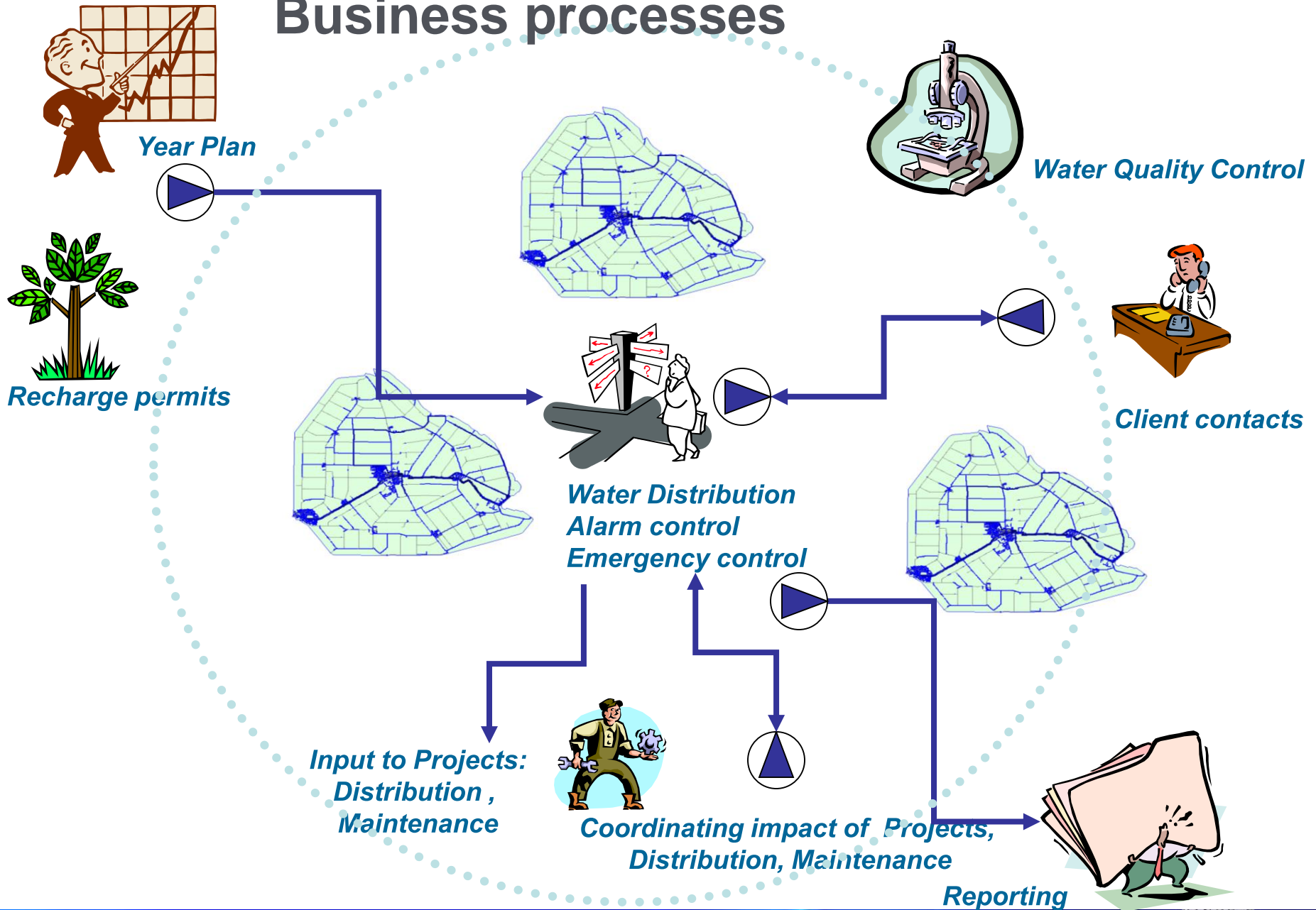
Vision DCC

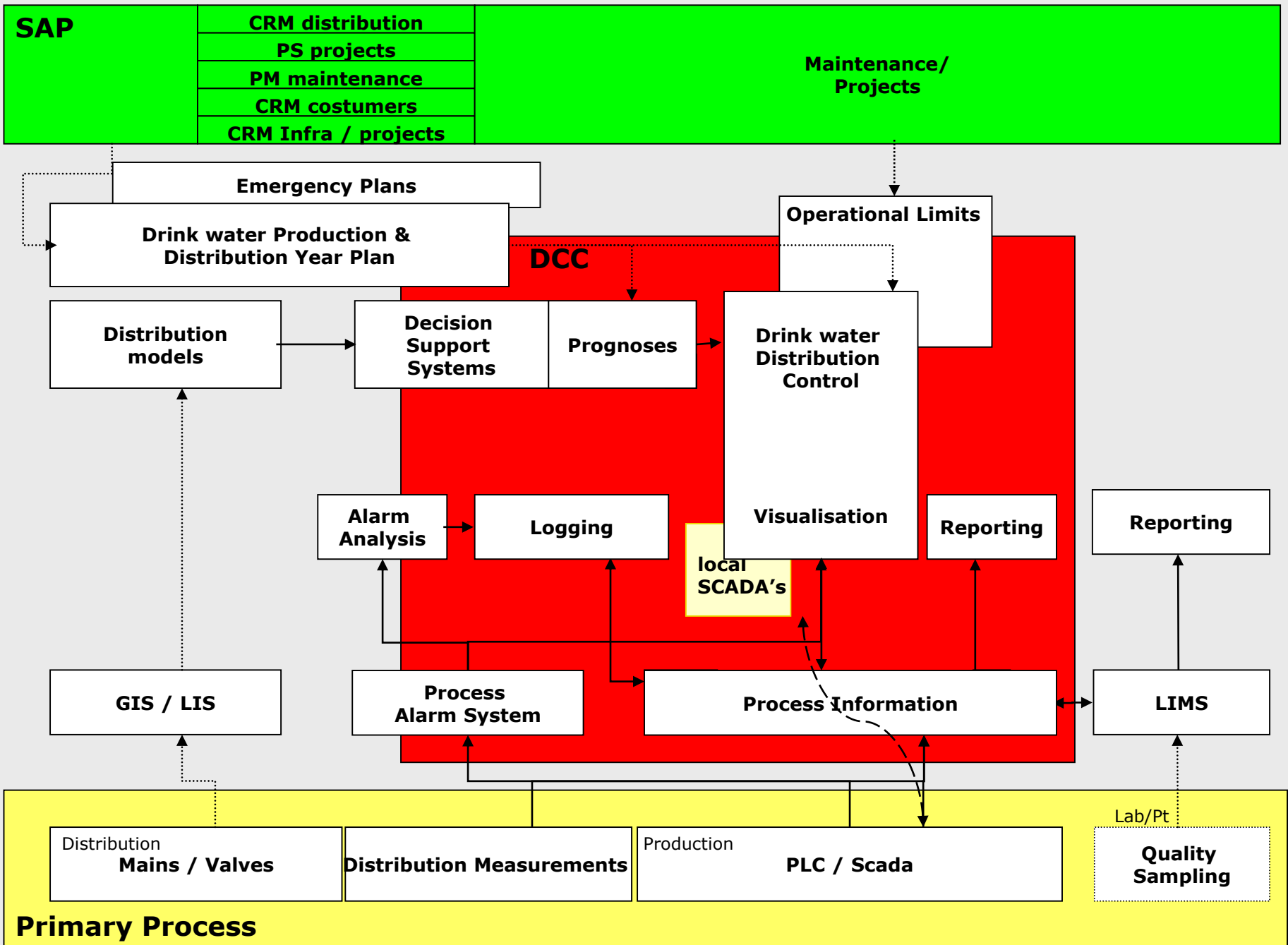


VALUE NOW, VALUE OVER TIME



Business processes





OSIsoft modules versus Vitens Functionality

Nr.	Module	Product		ProcessInfo	Drinkingwater Distribution Control / Visualisation	Logging	Decision Support system / Prognoses	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									
2.5.	Client applications									

VALUE NOW, VALUE OVER TIME



OSIsoft modules versus Vitens Functionality

Nr.	Product	Module	ProcessInfo	Drinkwater Distribution Control / Visualisation	Logging	Decision Support system / Prognoses	Reporting	Operational Limits	Alarm analysis
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								

VALUE NOW, VALUE OVER TIME



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

VALUE NOW, VALUE OVER TIME



Targets Vitens

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

VALUE NOW, VALUE OVER TIME



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

VALUE NOW, VALUE OVER TIME



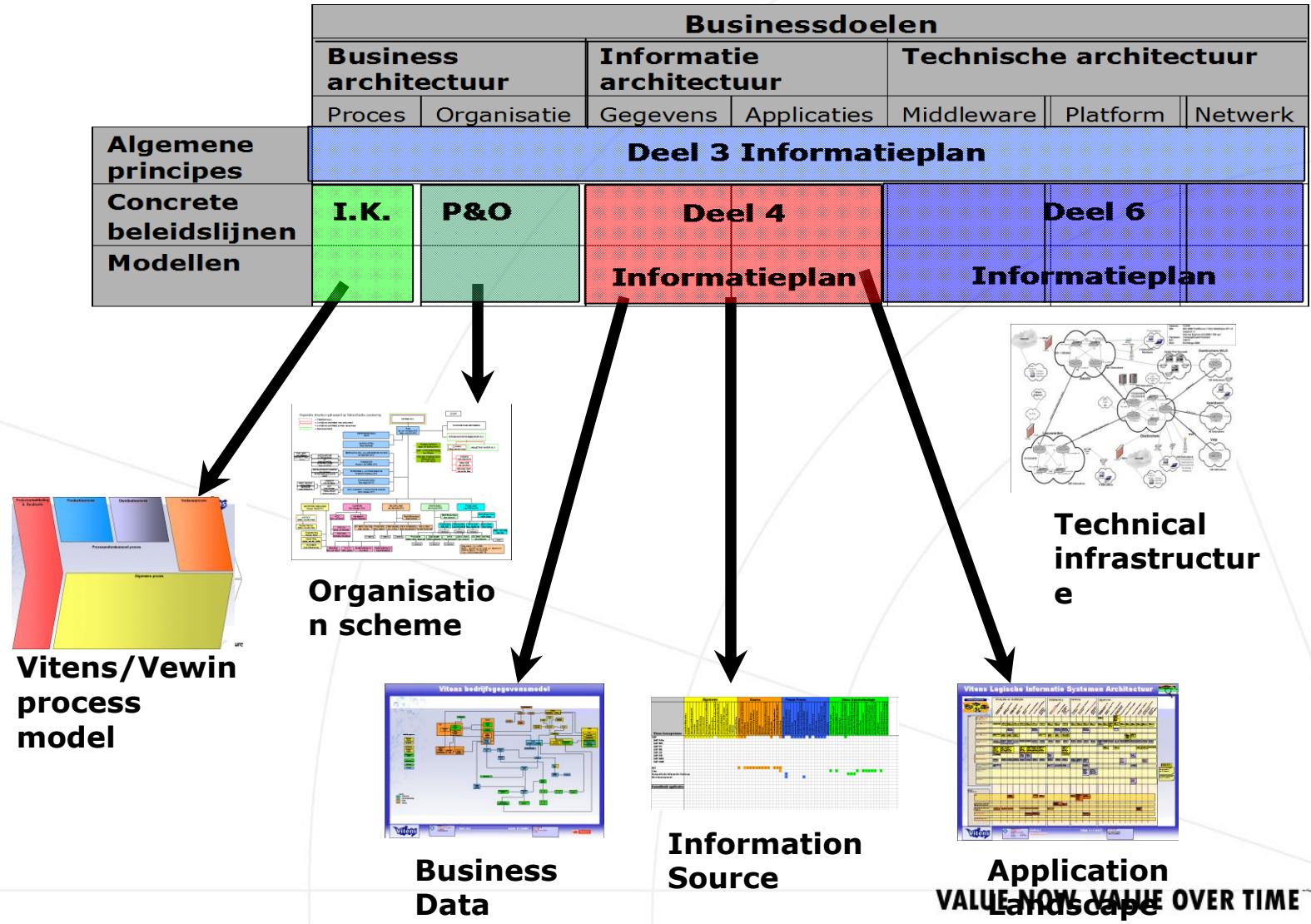
Policy Vitens

- 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

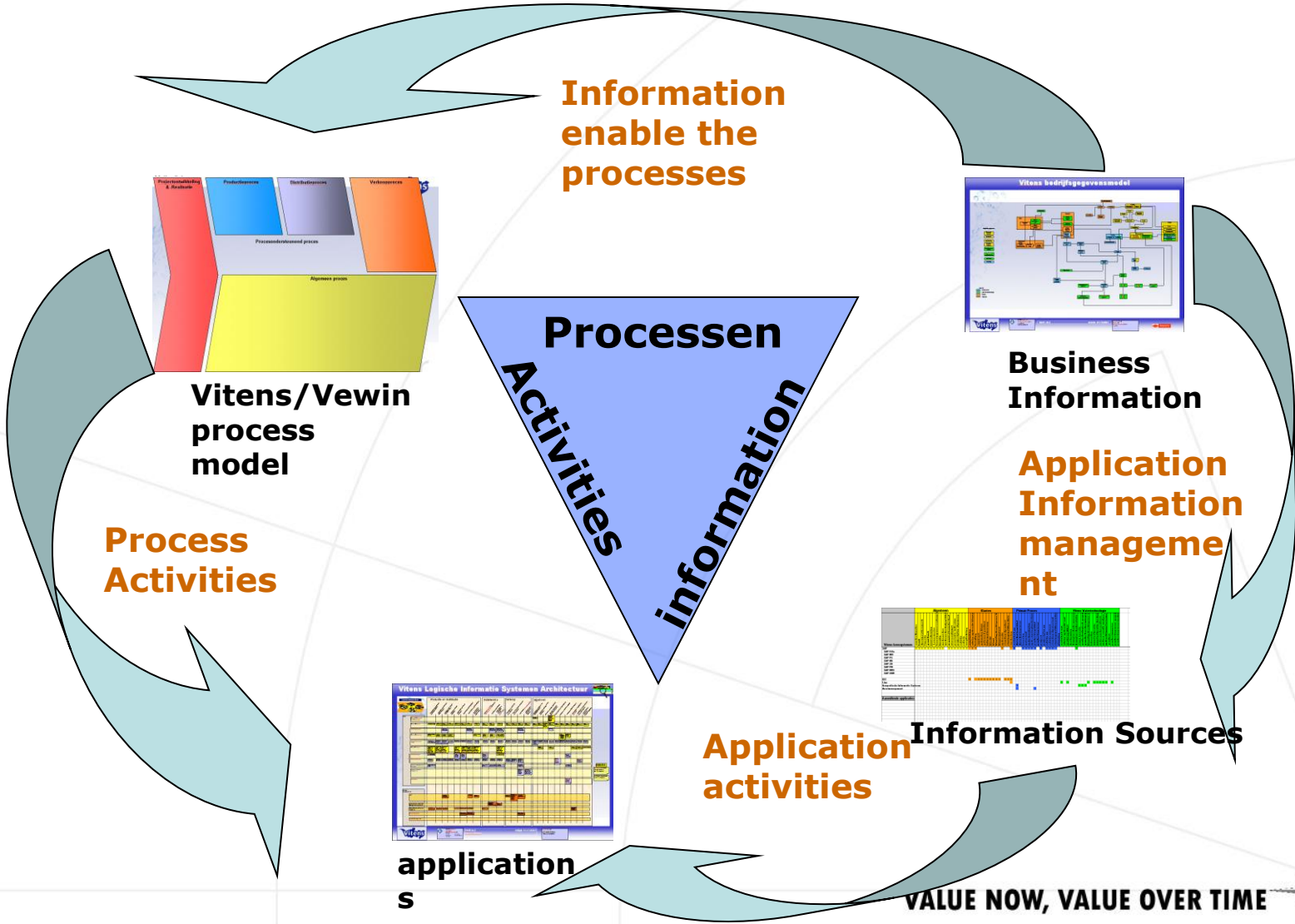
VALUE NOW, VALUE OVER TIME



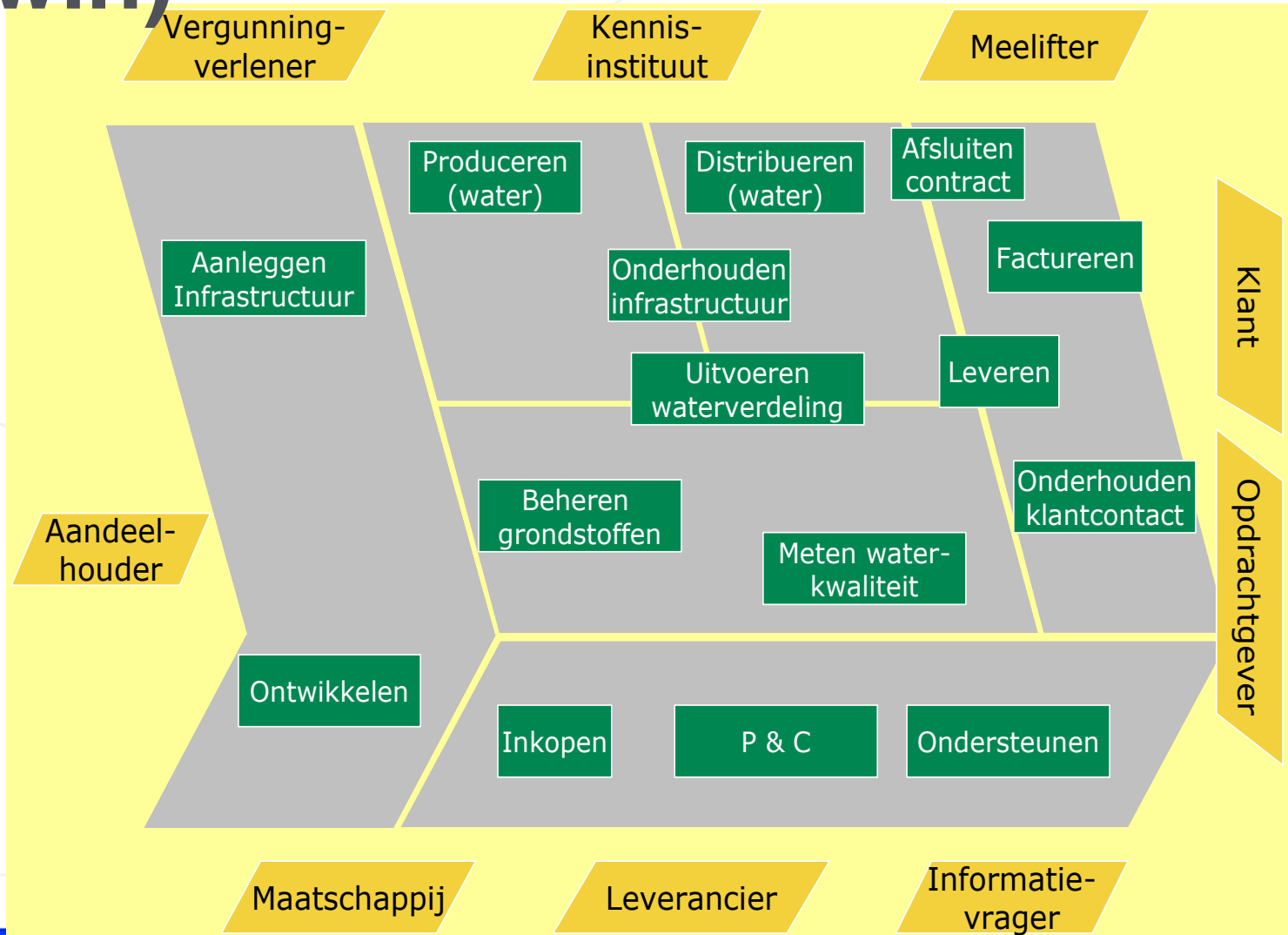
Architecture Framework



Consistency between models



Vitens Business Architecture (Vewin)



Client / Proces Matrix

Verkoopproces	Onderhouden klantencontacten						Afhankelijke Processen			
	Proces	Proces 1	Proces 2	Proces 3	Proces 4	Proces 5	Proces 6	Proces 7	Proces 8	
	Proces	Proces 1	Proces 2	Proces 3	Proces 4	Proces 5	Proces 6	Proces 7	Proces 8	
Productie / Service	Proces 1 (1)			Uitvoeren (1)	Uitvoeren (1, 2)	Uitvoeren (1, 2)		Uitvoeren		
Klant / Dierrecht / Klant / Klant / Klant	Proces 1 (1)							Proces 1 (1)		
Klant / Klant / Klant / Klant / Klant	Proces 1 (1)									
Informatie / Klant / Klant / Klant / Klant	Proces 1 (1)	Proces 2 (1)	Proces 3 (1)	Proces 4 (1)	Proces 5 (1)	Proces 6 (1)	Proces 7 (1)	Proces 8 (1)	Proces 9 (1)	
Informatie / Klant / Klant / Klant / Klant	Proces 1 (1)									
Beleging / Klant / Klant / Klant / Klant	Proces 1 (1)									
Productie / Klant / Klant / Klant / Klant	Proces 1 (1)									
Afweging / Klant / Klant / Klant / Klant	Proces 1 (1)									
Wettig / Klant / Klant / Klant / Klant	Proces 1 (1)									
Contract / Klant / Klant / Klant / Klant	Proces 1 (1)									
Movering / Klant / Klant / Klant / Klant	Proces 1 (1)									
Overname / Klant / Klant / Klant / Klant	Proces 1 (1)									
Reclame / Klant / Klant / Klant / Klant	Proces 1 (1)									
Document / Klant / Klant / Klant / Klant	Proces 1 (1)									
Aanpak / Klant / Klant / Klant / Klant	Proces 1 (1)									
Aanpak / Klant / Klant / Klant / Klant	Proces 1 (1)									
Distributie / Klant / Klant / Klant / Klant	Proces 1 (1)									



Best v 1.0

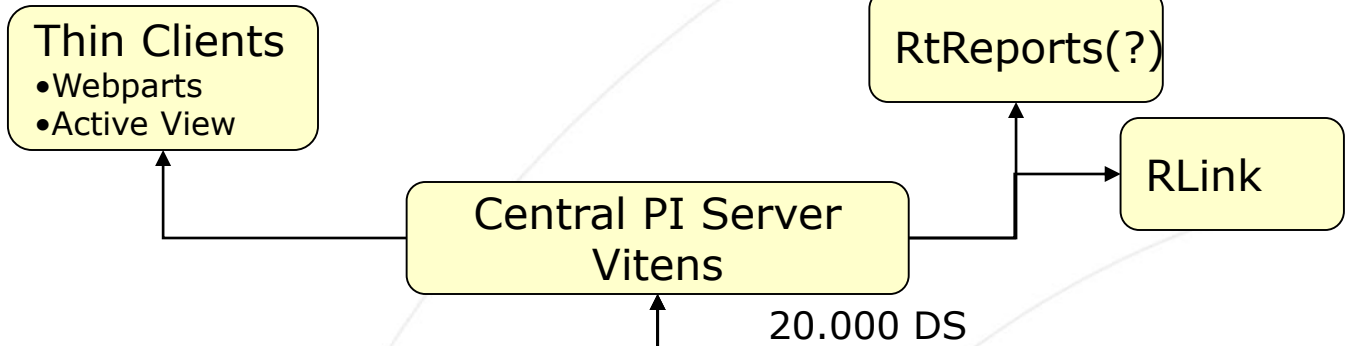
datum 22-11-2005

1.00000000
 2.00000000
 3.00000000
 4.00000000
 5.00000000
 6.00000000
 7.00000000
 8.00000000
 9.00000000
 10.00000000

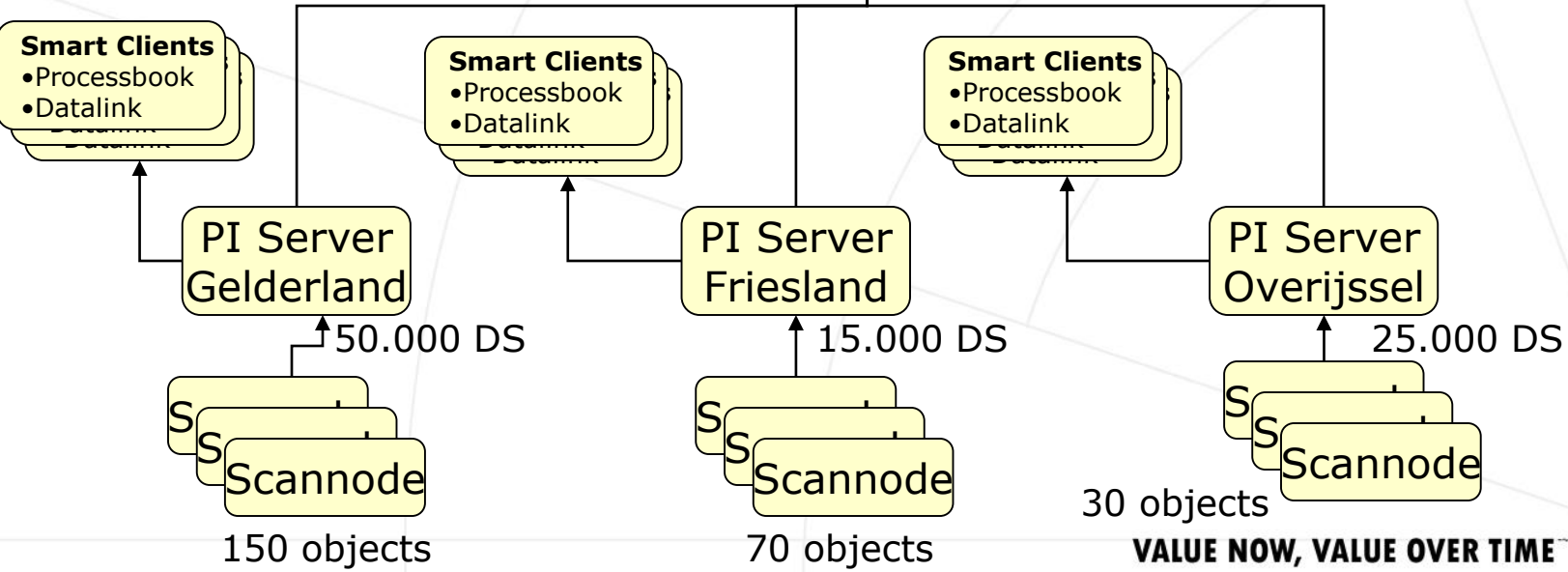
Legenda
 Eigen proces
 Afhankelijk proces
 Proces
 Afgevoerd



System Architecture



Information Network



Process Control Network

VALUE NOW, VALUE OVER TIME



Global planning Vitens

