



Experiences with RUP at Philips TASS

Johan Sunter





Overview

- What's TASS?
- RUP associated projects
 - TMR
 - P007
 - LFD
 - PSI plugins
- Comparison
- Conclusions



Philips NV

- Philips NV heeft 6 productdivisies (PD)
- Tass International hoort bij de PD

Research

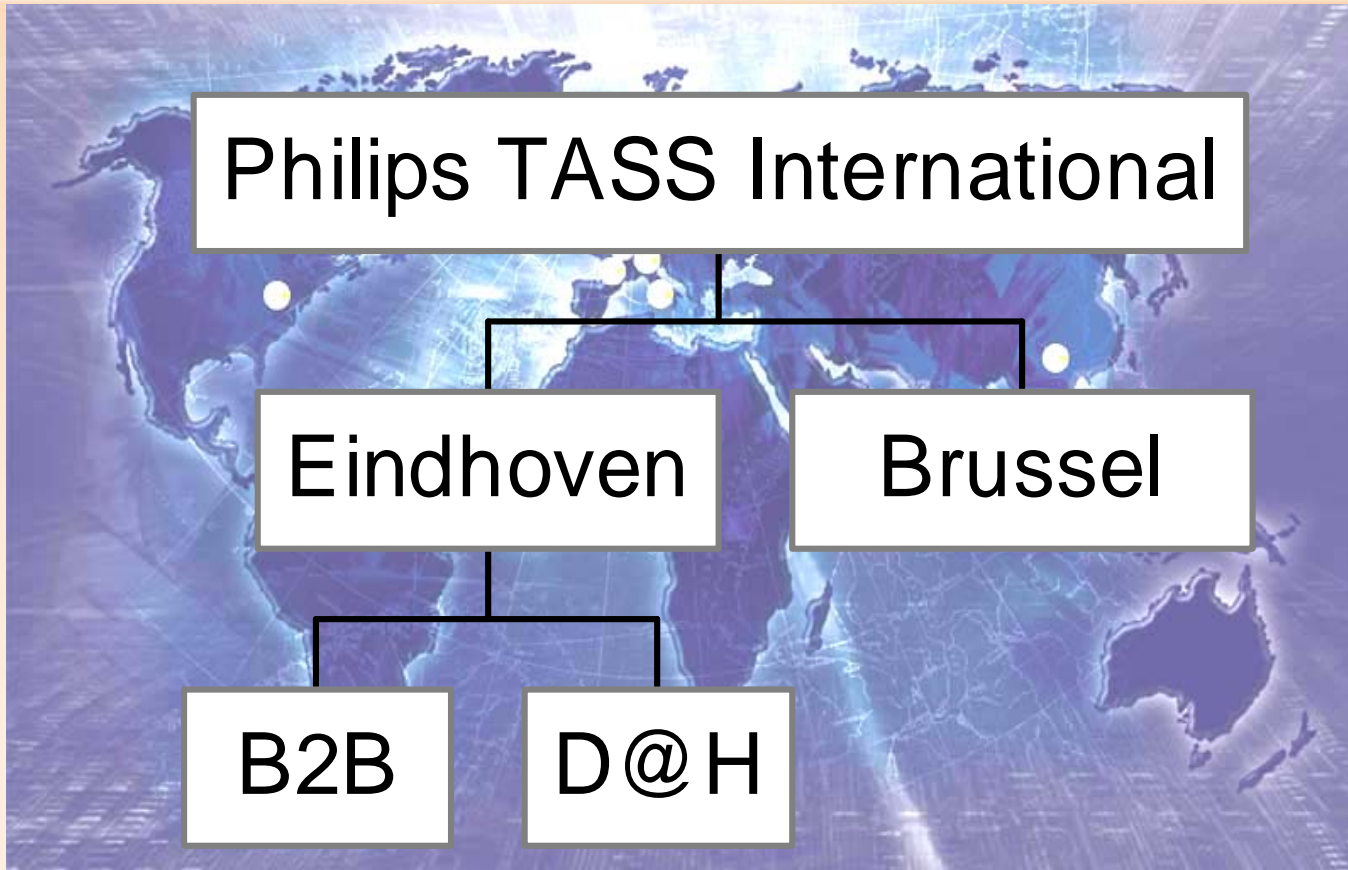
Koninklijke Philips NV

Corporate Research

TASS International



Organisatie



Philips TASS

- 100% dochter Philips NV
- Opgericht in 1978
- Vestigingen in Eindhoven en Brussel
- Ruim 250 medewerkers
- Referenties o.a. Philips (CE, PSc, PMS, PL, research, Crypto), ASML, VDO, OCE, Origin, Assembleon.

Projects

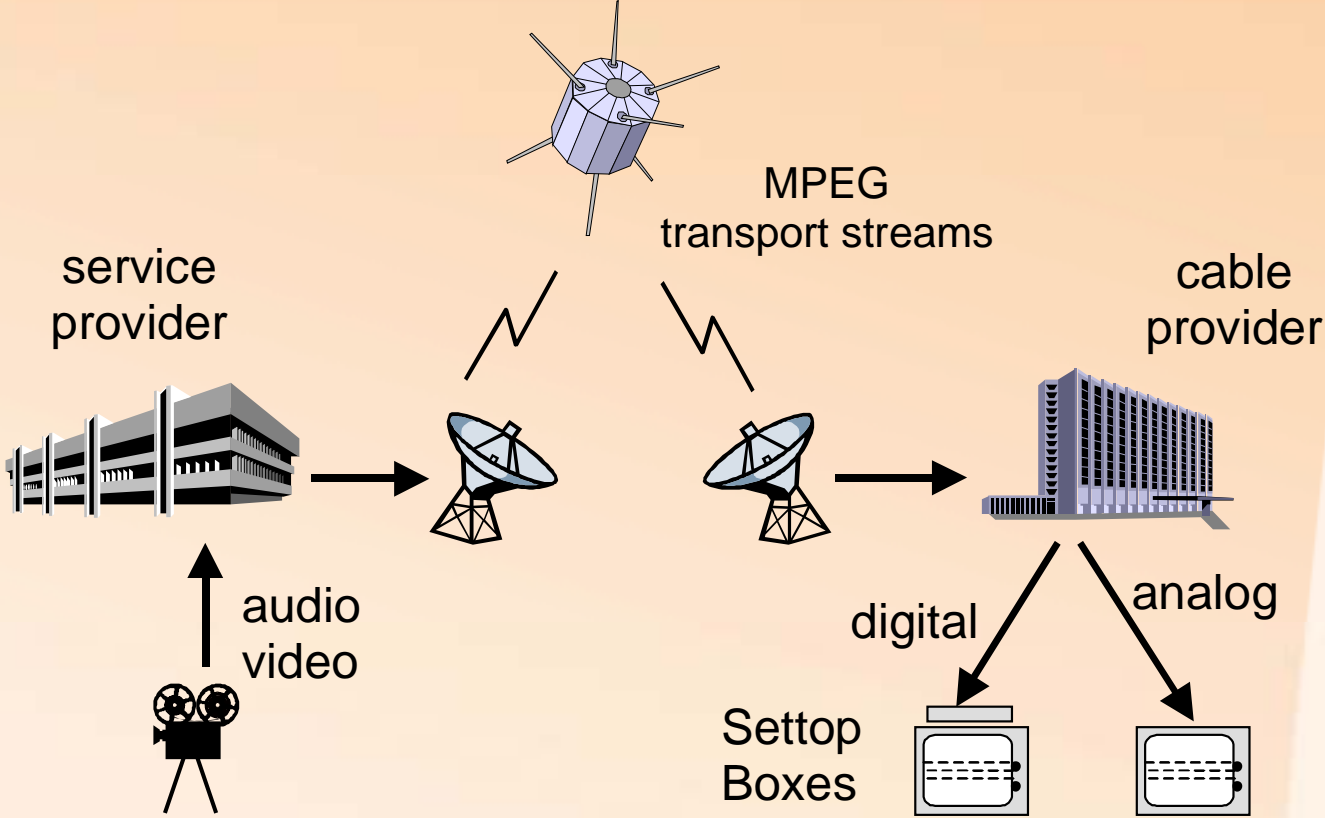
- DN - DTS
 - TMR
 - P007
- DN – STB
 - PSI plugins
- PPD
 - LFD

DN - DTS

- Digital Networks – Digital Transmissions Systems
- Broadcasting Systems
- Large scale, small volume
- Redundancy, Graceful Degradation
- Mission critical

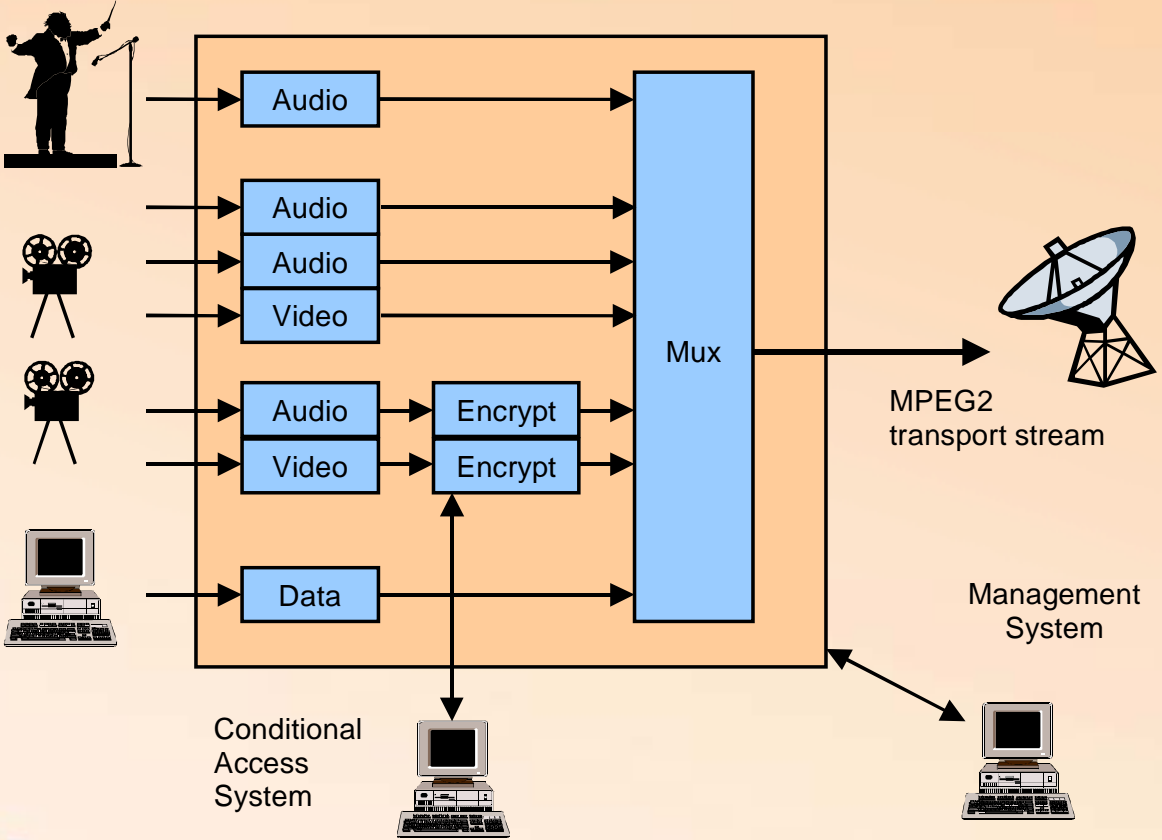


Broadcast systems



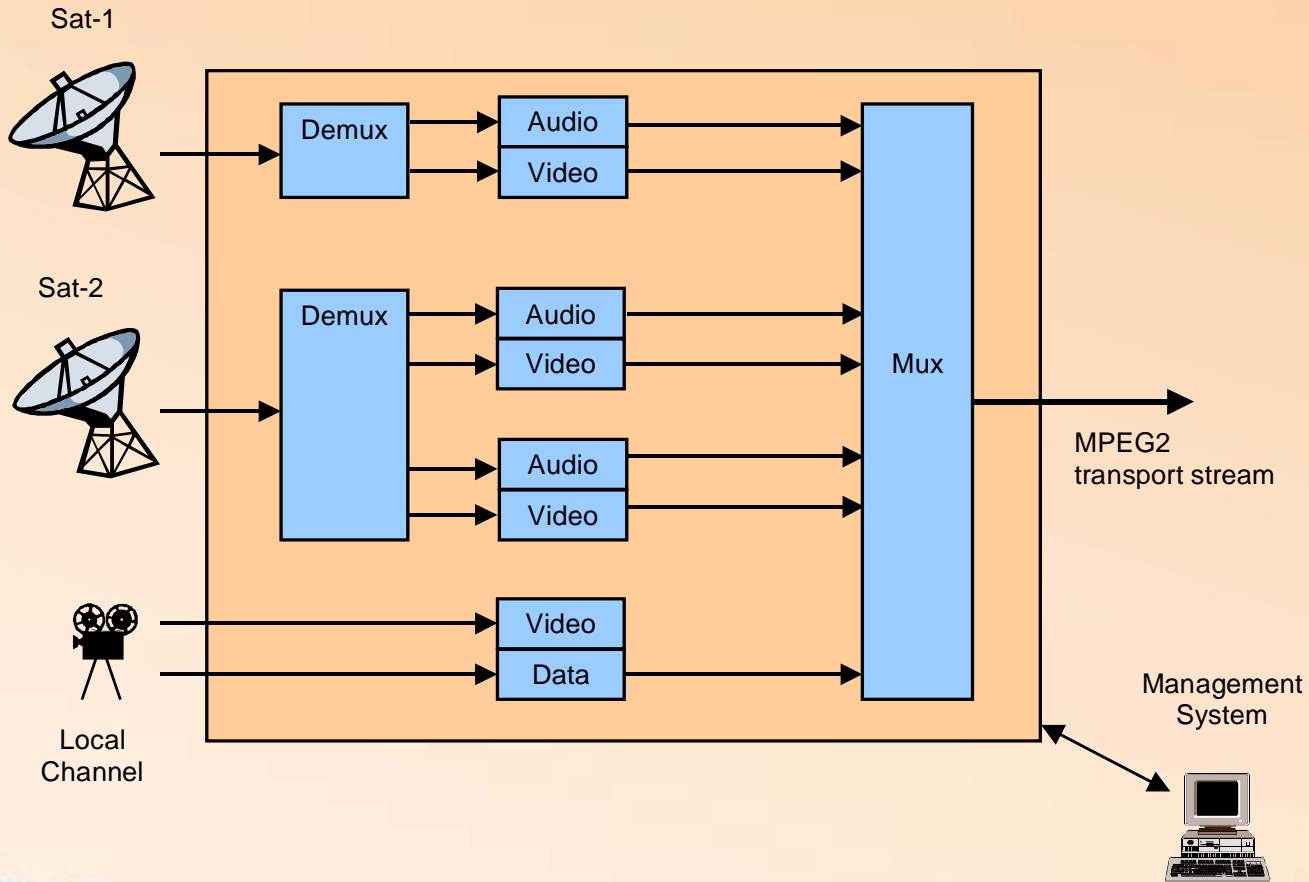


Compression Systems





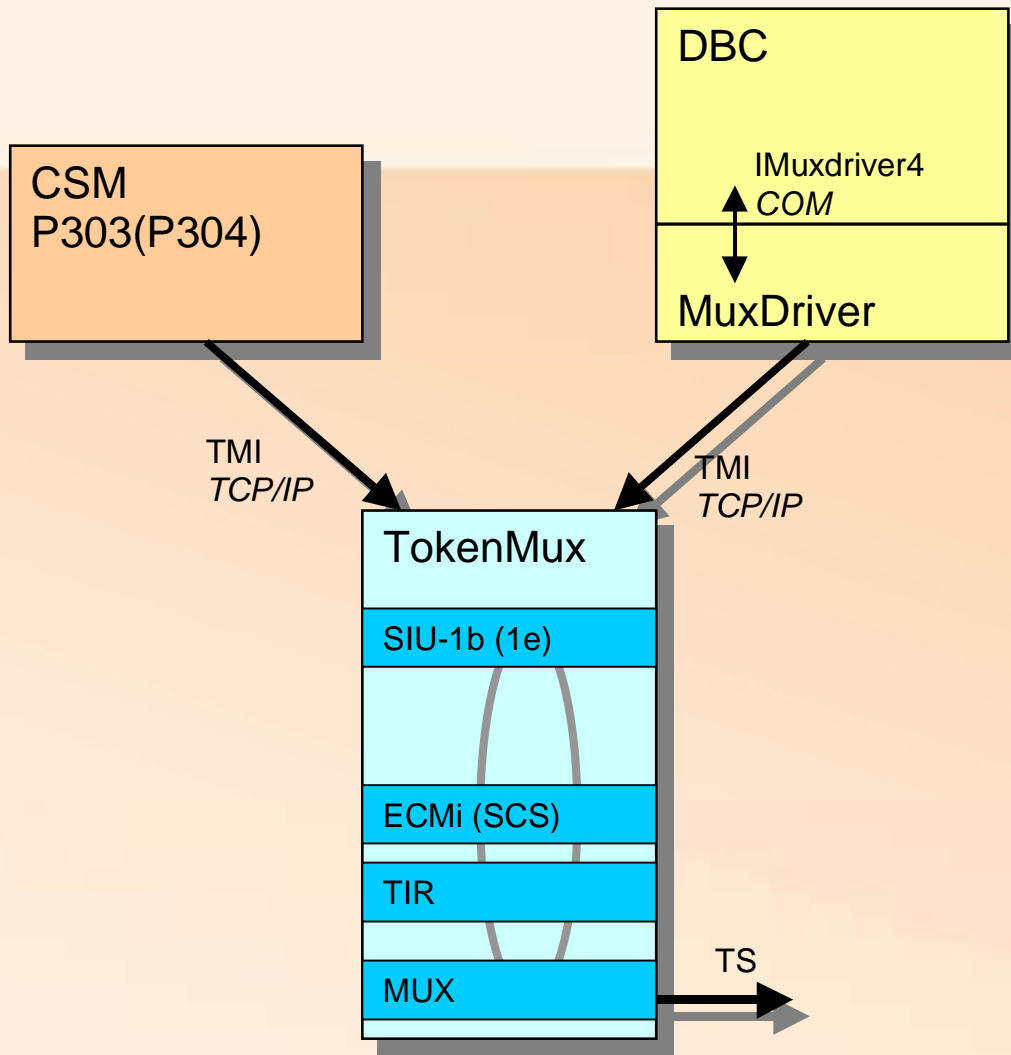
Remultiplexing Systems





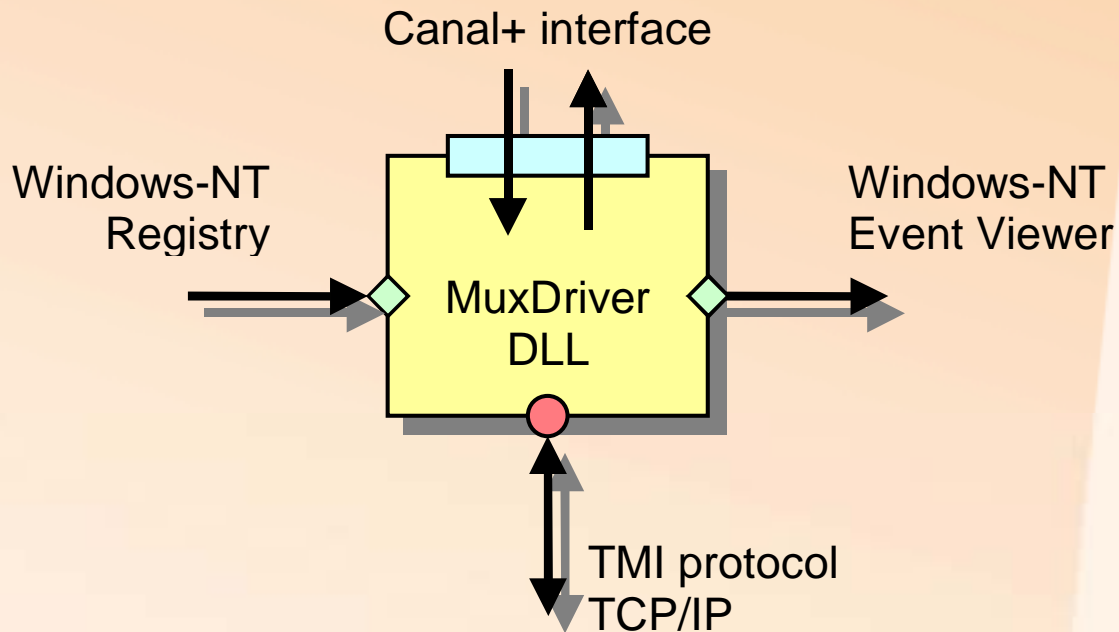
TMR

- Q2 1998 – Q4 1999
- Add-on to existing system
- Interface from CSM to DBC
- 10 Man-years
- 6 persons
- In-house project
- First project with Rational Tool Chain
- On time, within budget
- Few PRs





- COM
- ◇ WIN32
- WinSock

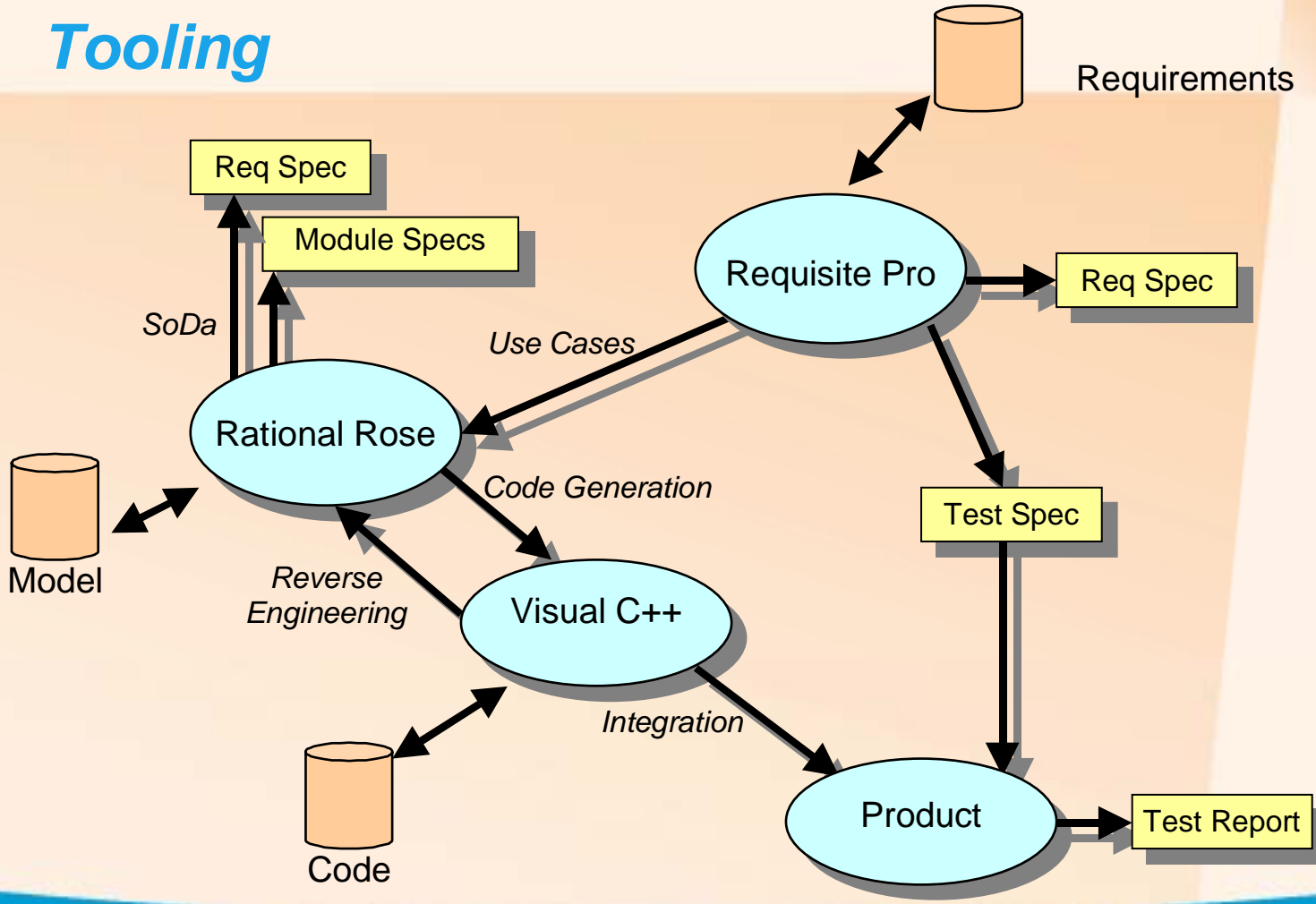


P007

- Q2 1999 – Q1 2001
- New generation of Compression System
- Windows 2000
- Active Directory
- DCOM
- 100 Man-years
- 30 persons
- In-house project
- Cancelled



Tooling





Process

- Risk driven increments
- Use Cases
 - TMR: based on Canal+ interface behavior
 - P007: hard to guarantee complete coverage based on use cases alone
 - Supplementary specification
- P007
 - More elaborate Inception & Elaboration phase
 - Early prototypes – architectural verification
 - Time boxing
 - Better requirements management
 - Close cooperation with customer
 - Not always appreciated immediately...



PDP Control & Config

- 2001
- Large Flat Displays
- Initially in-house, later at customer site
- Increments
- Strong use-case bias
- Dynamic behavior described in SA/SD diagrams
- < 10 man-years
- Stopped when customer closed

PSI plugins

- Small pilot project
- 4-5 people, 3 months
- Aims
 - specify using use-cases
 - compare Rose & Rose-RT development
- Rational consultant → RUP
- 3 use cases worked out in Rose & Rose-RT
- Req. Mgt → Use Cases → ReqPro
- Short iterations



What's RUP?

- “collection of best practices glued together with impressive pictures”
- “marketing tool for selling Rose & Co.”
- “nothing special”
- “over hyped”
- “pap met krenten”



What's RUP?

- “... captures many of the best practices in modern software development...
 - Develop software iteratively
 - Manage requirements
 - Use component-base architectures
 - Visually model software
 - Verify software quality
 - Control change to software”

Kruchten, 1999



What's RUP?

- “... three important features of the RUP ...
- The role of use cases in driving many aspects of the development
- *Its use case as a process framework that can be tailored and extended by an adopting organization*
- The need for software development tools to support the process”

Kruchten, 1999



What's RUP?

- Not revolutionary
- Many sensible ideas
- Emphasis on short cycles
- Needs to be tailored to existing development organizations
- Not adopted wholesale within TASS

- Is it good for any project?



And other methods?

- The same ideas come back in other methods
 - OSRP
 - MG-R
- How to compare methods and their metrics?
- What rules must a good method satisfy?
- Can there be a mathematic framework?
 - A calculus of SDMs...