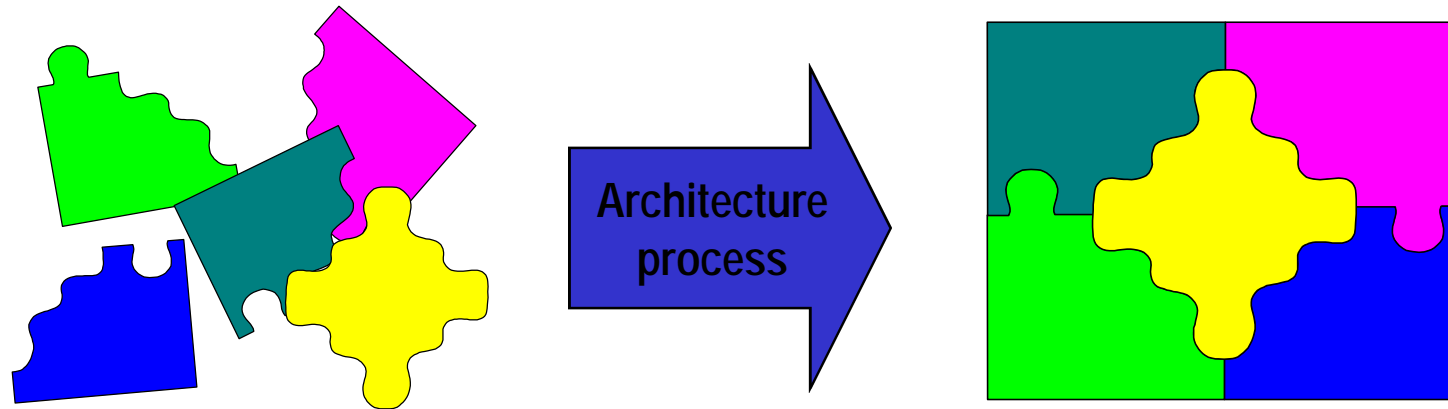


# In Search of an Architecture



Procurement made understandable by  
an architecture

By

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# Today's Text

- About Statskonsult and the architecture project
- The target architecture - the public sector core network
- The process of creating an architecture
- The pro and cons of our development method/process
- A comparison with the TOGAF ADM
- The link between procurement and architecture



# Statskonsult

- Governmental employees with a sole focus on the public sectors needs and requirements
- It-professionals with good experience from the public sector. We know the possibilities and to a large extent the business requirements
- No day to day duties - just project work
- Our mission is to make the public sector more efficient so it can give better services to it's customers



# The National IT Procurement Initiative

- A major initiative to create a common infrastructure for the public sector in Norway- joint venture between local and central government
- Developing framework contracts for IT procurement. 6 different contracts signed, 2 more on the way



# The National IT Procurement Initiative 2

- Using open standards to create connectivity internally and externally
- Creating common services - PKI, directory, EDI, E-mail converter, etc
- Main goal: To facilitate simple, secure and cost effective electronic communication within the government and with partners



# The Operational Environment for the Procurement Initiative

- At least three concurrent processes
  - Architecture
  - Procurement process
  - Technical specification
- A lot of money and a great momentum
- Industry interested in the procurement process
- Users eager to use the framework contracts



# The Goals for the Architecture Project

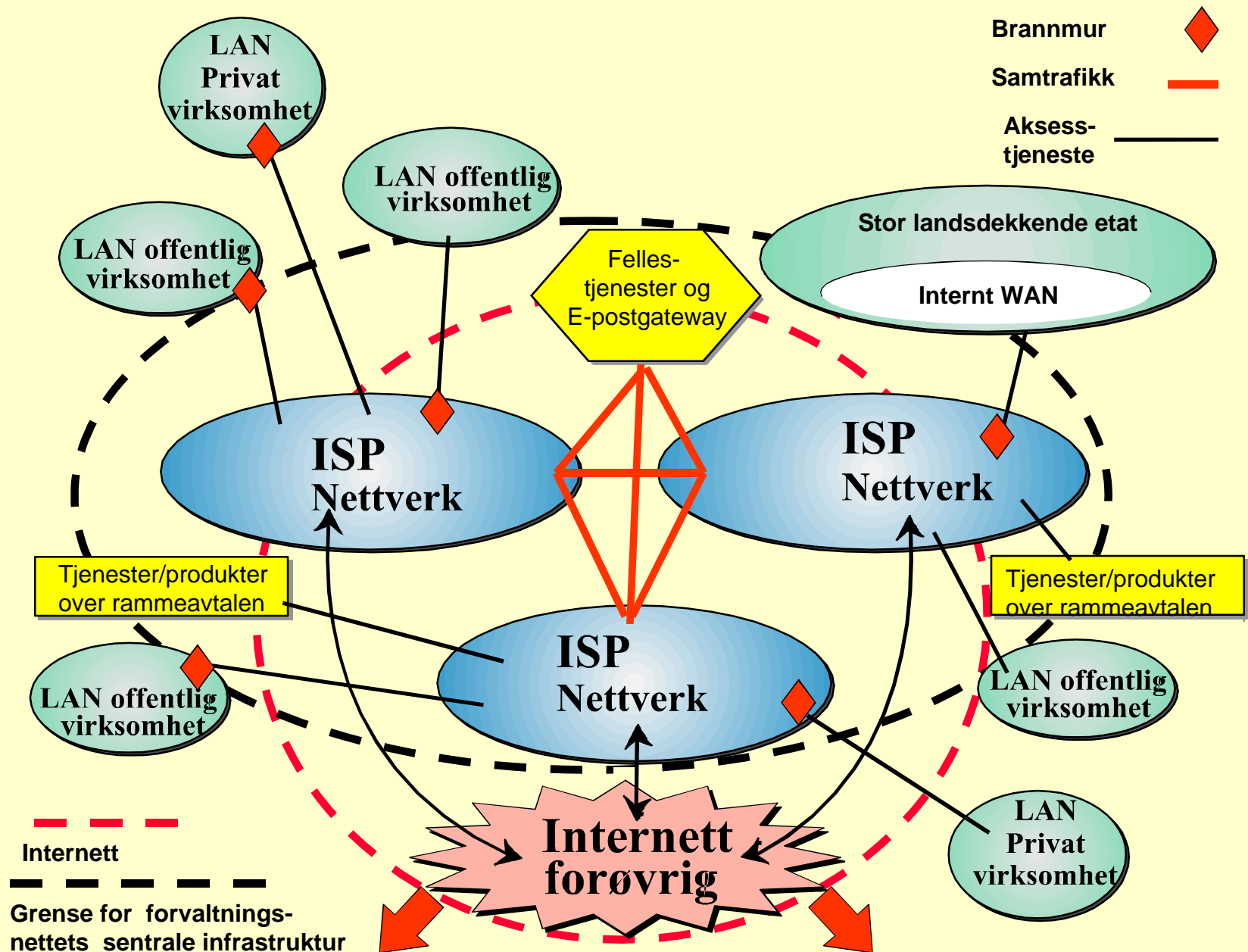
- Create an high level architecture for the public sector network in Norway
- Co-ordinate the architecture with the procurement and specification processes
- Relate the architecture to relevant international architectures (IT-DialTone)

# The Target Architecture Principles

- Use Internet as a backbone - run TCP/IP
- Add central services like a directory, a PKI and a e-mail converter (X.400 to SMTP)
- No central firewall - each connecting unit responsible for it's own security
- Buy quality of service as needed







- - - - - Internett  
 - - - - - Grense for forvaltnings-nettets sentrale infrastruktur

# The architecture process - overview

- Commitment from top level management
  - The minister and the board of directors of “KS”
- Establishing a working group
- Getting involvement from
  - Procurement project group
  - Industry
  - Users
- Open meetings to get input and correction



# Top Management Commitment

- The project was “blessed” by our minister
- We got a good budget to do the project
- The project leader got enough time off to run the project - highest priority
- Direct communication with the leaders of the other projects and other top management



# The Working Group

- Lead by Statskonsult
- Participation by
  - Main vendors
  - Large users
  - Governmental IT-specialists
  - A leading international “architect”
- Intensive work for a short period

**NB: Getting the right people in the working group is the difference between failure or success**

# The Process 2

- Look at existing architectures
  - The main participants went to The Open Group
- Involve the vendors and the users
  - User requirements and vendor deliverables
- Define the terminology
- Define the scope of the architecture

**NB: Commitment from the vendor-side was ensured by the procurement process - They knew this was no theoretical exercise**

# The Open Meetings

- During the process there were three meetings open for all interested. Participation by vendors, technical specialist, users and project management
- An open forum for discussion - good dialog
- The open group did a presentation in one of them
- Gave the vendors an understanding of what the procurement was aiming at



# Pro and Cons in the Architecture Development Method

- + People with knowledge about architecture and the special needs in the public sector
- + Commitment from all parties and enough money to carry the project true
- + The link from the architecture work to the procurement process - vendor involvement
- + The open meetings - creating momentum



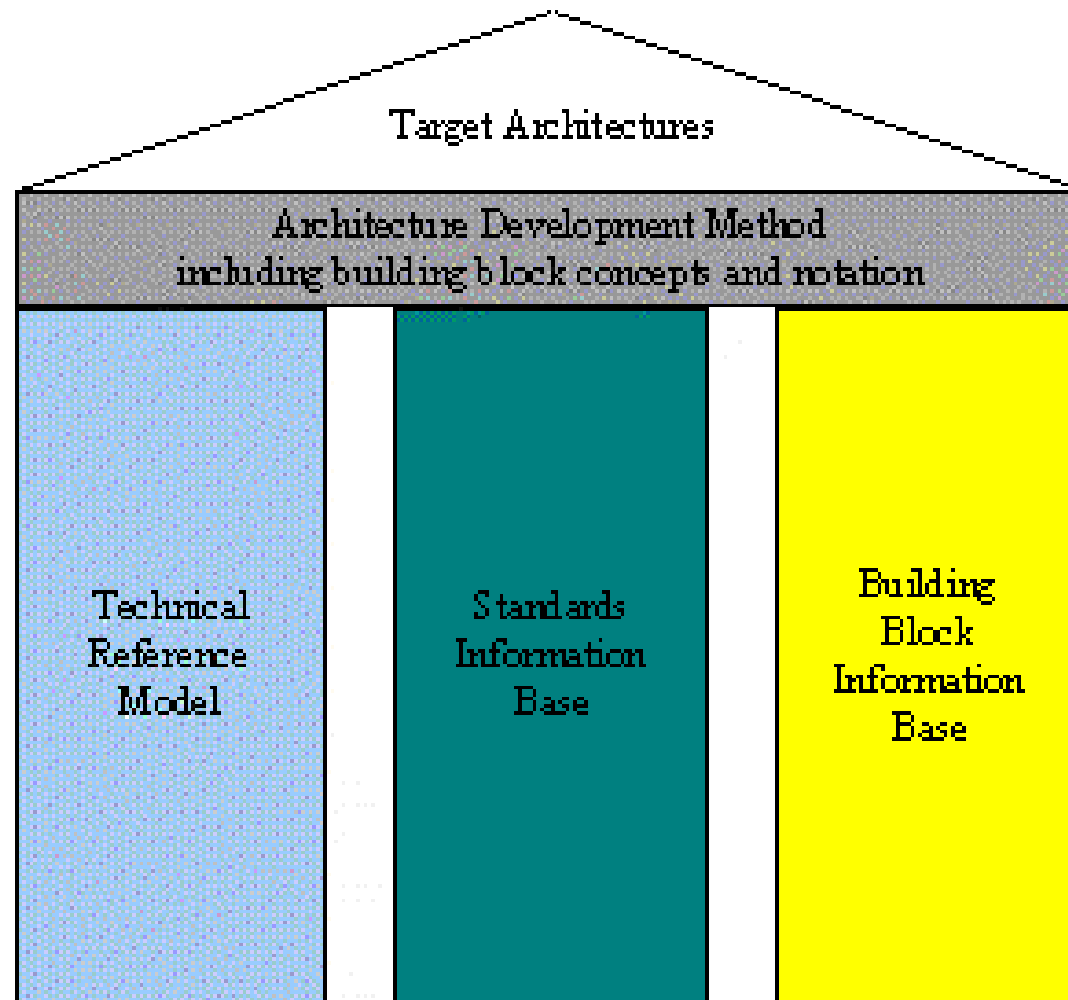
# Pro and Cons in the Architecture Development Method 2

- + The relationship to other architecture work
- Dependent on the knowledge off the working group
- No “real” end user input
- The process couldn’t agree on a common set of applications
  - an architecture for a common infrastructure not common applications

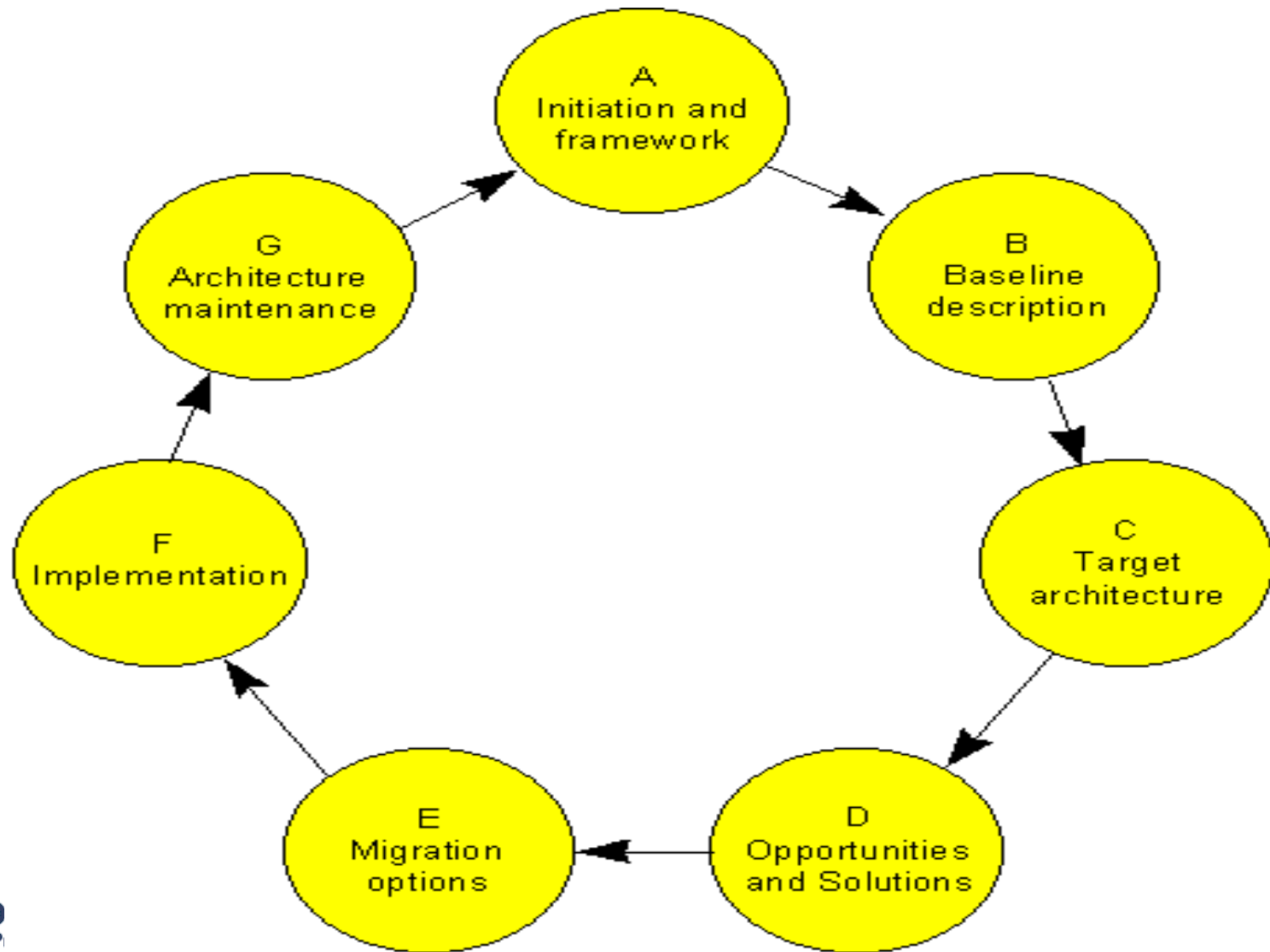


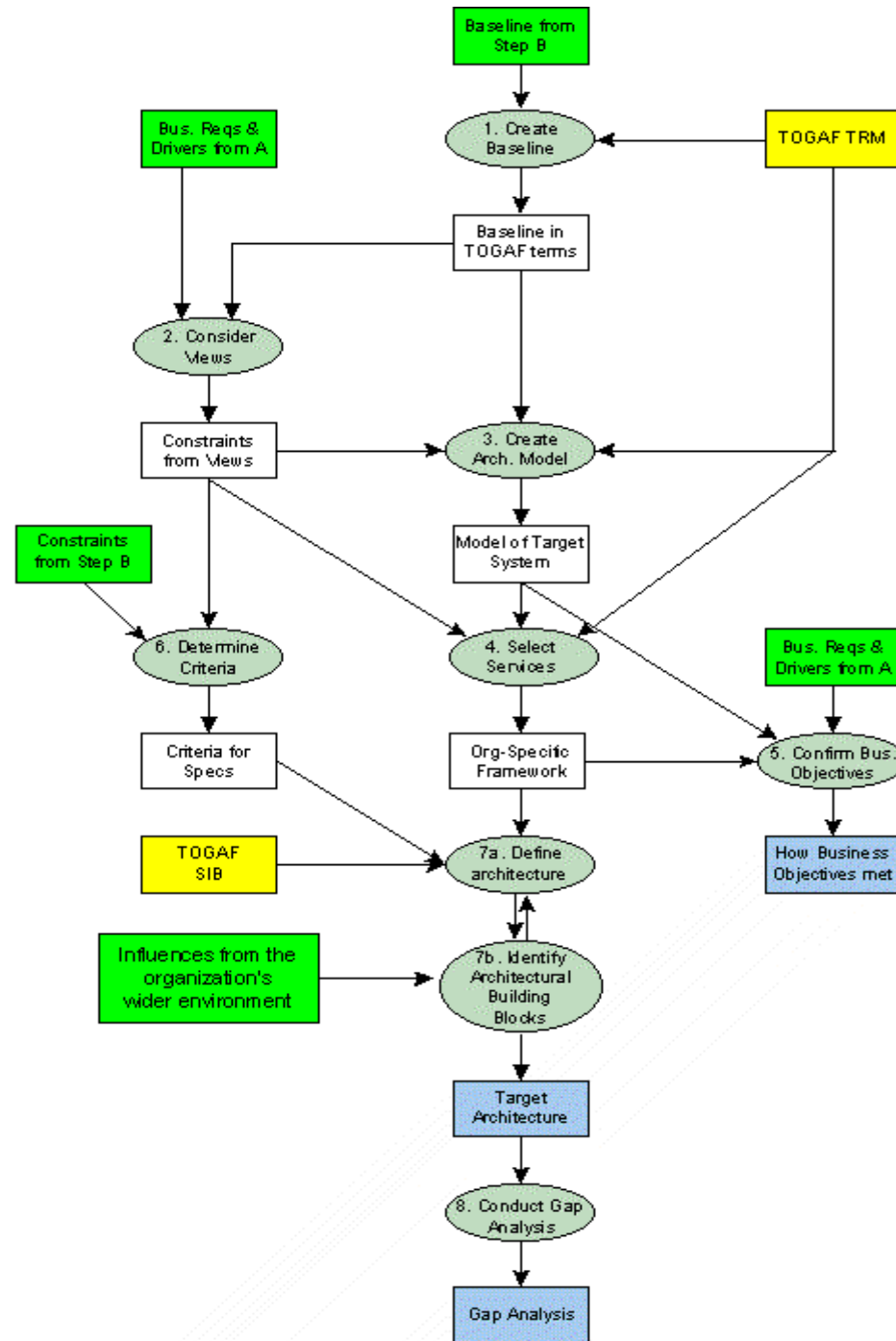


# Overview of TOGAF



# The TOGAF ADM





# Comparison With the TOGAF ADM

- We used the methods described in step A, B and C in the ADM as a help in developing our architecture
- We found the description of the input and output for these faces very helpful
- We did not use the SIB or the TRM

# Comparison With the TOGAF ADM 2

- Architecture is a circular process. We are trying to start an architecture project part 2. We got this point from the TOGAF ADM
- Part D of the ADM is taken care of by the framework contracts
- Part E and F is outside the scope of the project



# The use of views

- TOGAF uses the notion of views - You can look at an architecture from different viewpoints - security, management, infrastructure, etc.
- Our view of the architecture was from an infrastructure/connectivity viewpoint.
- TOGAF told us you don't have to cover everything in an architecture



# What Did the Architecture Process Give Us?

- A technical architecture for the core public sector network
- A clarification of the terms used in the procurement project
- Input to the specification process
- A communication “bridge” between the users and the procurement project



# What Did the Architecture Process Give us? /cont

- A better understanding of the problems involved in creating an infrastructure for the public sector
  - Common services
  - Quality of service
  - Vendor co-operation
  - Centralisation of services vs flexibility in choice of services

