



# Visual Enterprise Architecture Planning

Lars Wilkens Henriksen NCR SE-Copenhagen



The Open Group Conference

Hotel Marienlyst, Helsingor, near Copenhagen, Denmark 26-27 April 1999 (extending to 30 April for Open Group members)







- Why IT Architecture planning and IT & Business Alignment
- The Elements of IT Architecture planning
- NCR's GITP and TOGAF
- Problems with traditional IT Architecture planning
- Visual Enterprise Architecture Planning

# Demo



<b>CIO and Senior IS Management</b>	Issues	
Issue	1997	1996
Aligning IS and Corporate Goals	1	1
Organizing and Utilizing Data	2	3
Instituting Cross-Functional Systems	3	2
Using I/T for Competitive Breakthrough	as 4	13
Integrating Systems	5	16
Capitalizing on Advances in I/T	5	15

Source: CSC Survey of Critical IS issues

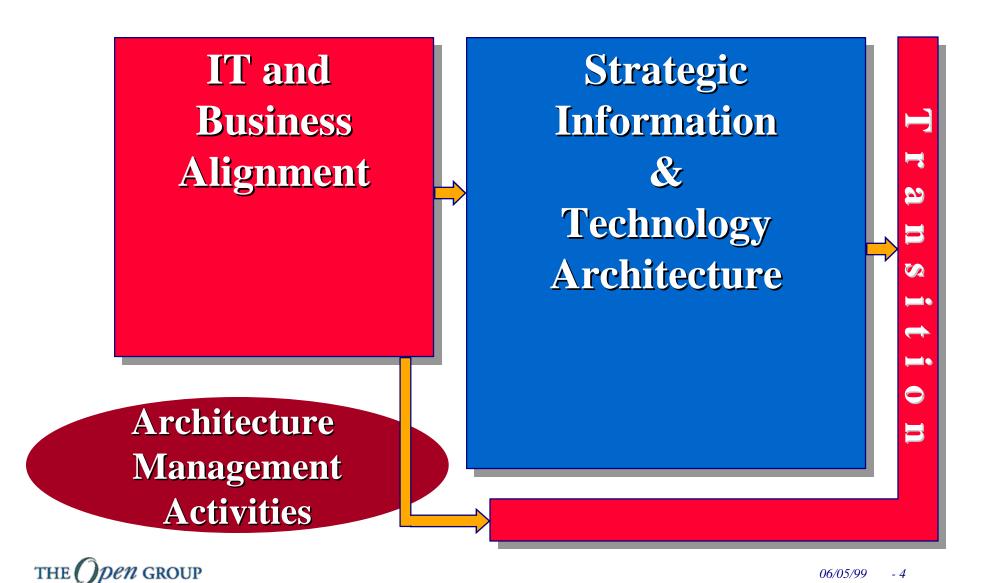


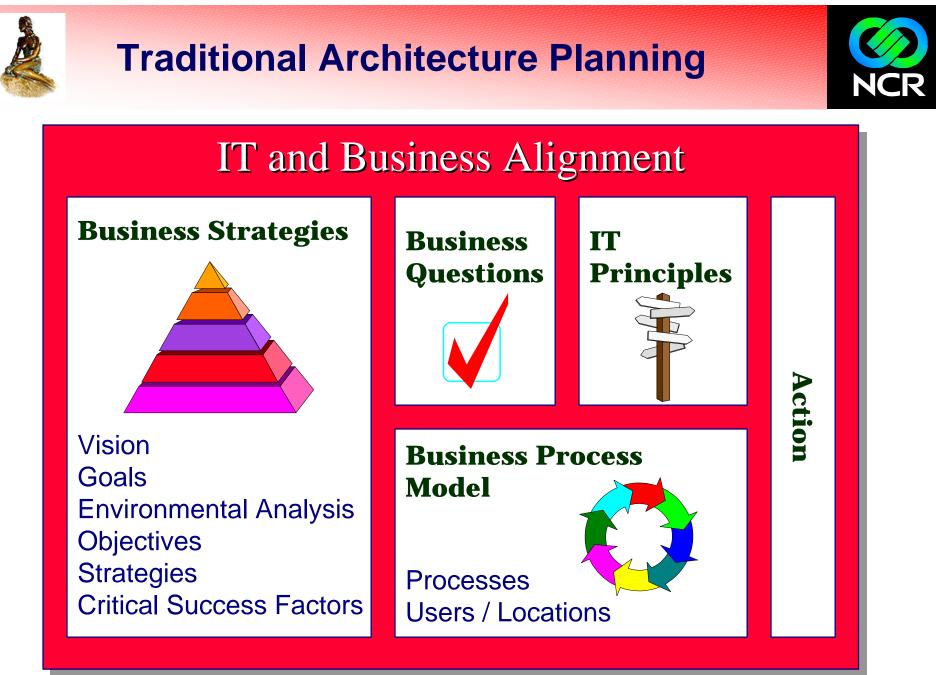
06/05/99 - 3



# **Traditional Architecture Planning**





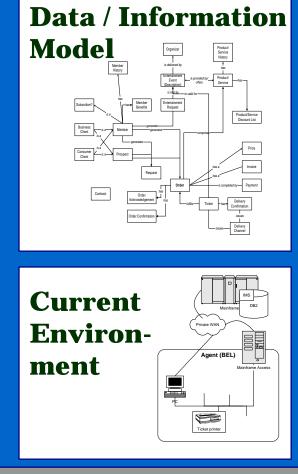


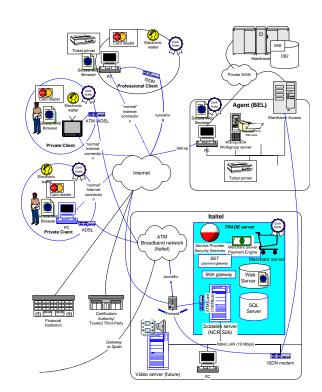
THE *Open* group





# **Strategic Information & Technology Architecture**





### **Future Target Architecture**

## **Applications**

## Data

# Technology

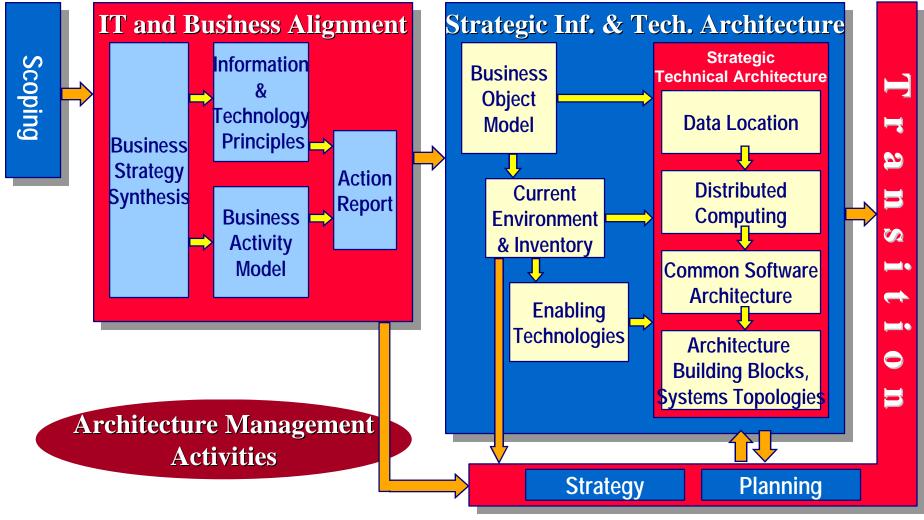
- Components
- System Profiles
- Topologies

THE Open GROUP



# NCR's GITP (Global IT Planning) Method



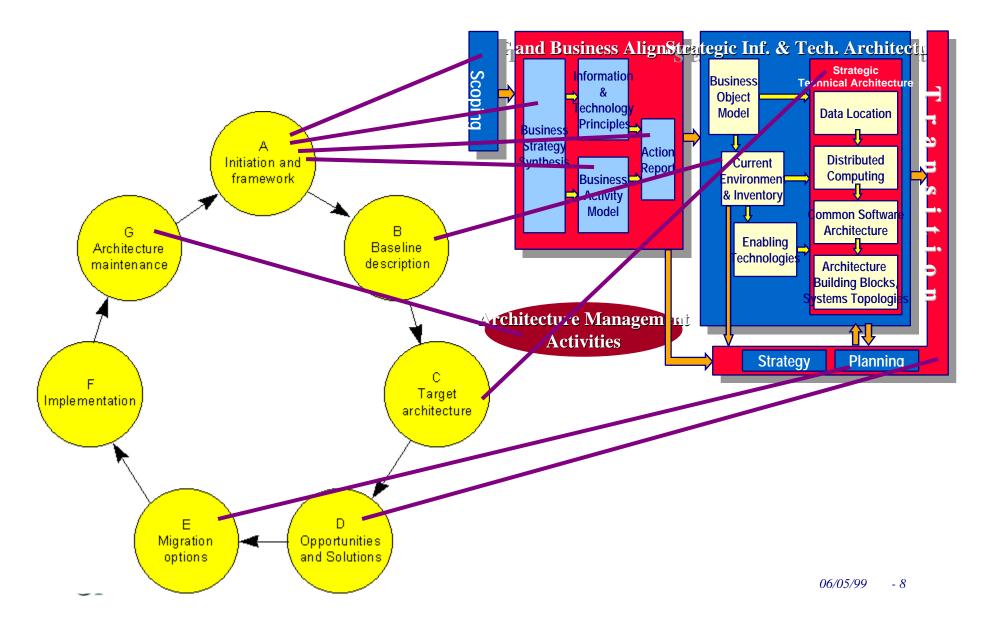


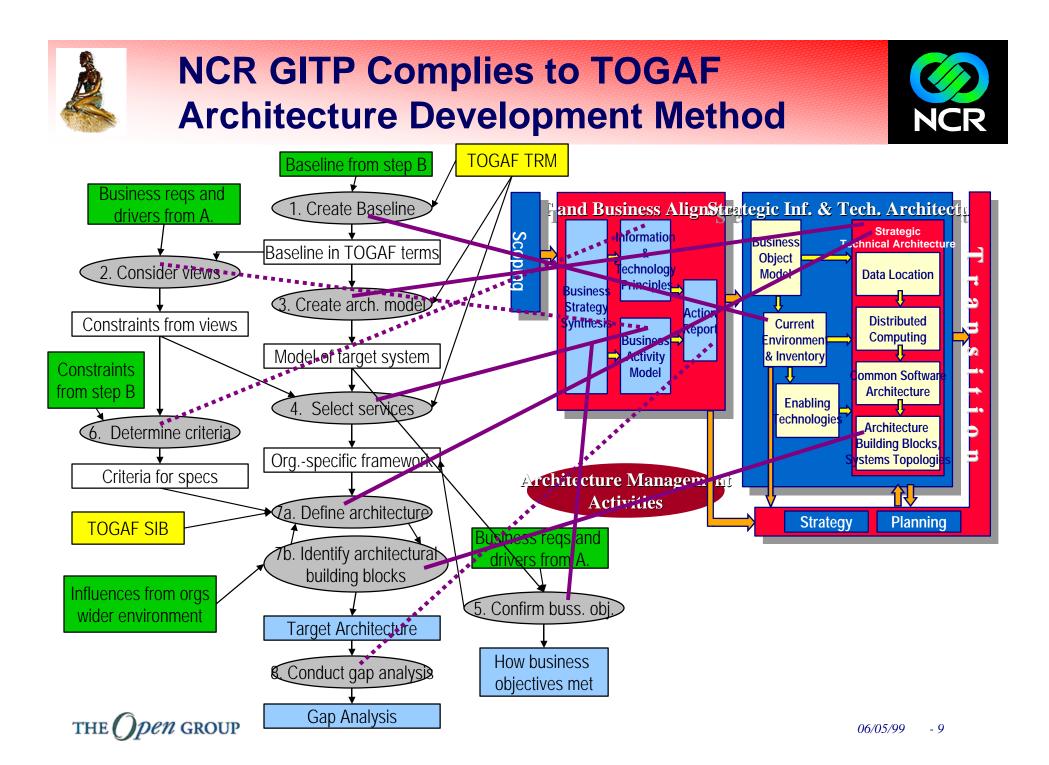


06/05/99 - 7

# NCR GITP Complies to TOGAF Architecture Development Method









# Differences between NCR GITP and TOGAF ADM



- GITP has:
  - More details on Business Strategies - strategies, objectives, critical success factors
  - \* More on Business Activity models and user/location models
  - Business Object Modelling and a data distribution scheme
  - \* Application Architecture: an "external view" (computing elements) and an "internal view" (the data and functionality structure of proposed applications)

TOGAF ADM has:

- \* More on project management structures
- Gap analysis how does the proposed technology architecture meet the business needs

### Conclusion:

TOGAF provides an excellent framework for technology planning, capturing state-of-the-are approaches found in most IT planning methods.

GITP is in accordance with the TOGAF approach to technology planning, and goes further in also incorporating the application and database aspects.







#### NCR Open Cooperative Computing Architecture **Technology** Position Papers NCR Banking Architecture NCR Retail Architecture Common Foundation Systems Industry Organization Result of an Architectures Architectures Architectures Architectures NCR GITP Architecture engagement Continuum quides & quides 🖄 auides 🖄 quides & supports supports supports supports Solutions Continuum Products Systems Industry Organization & Services Solutions Solutions Solutions

THE Open GROUP

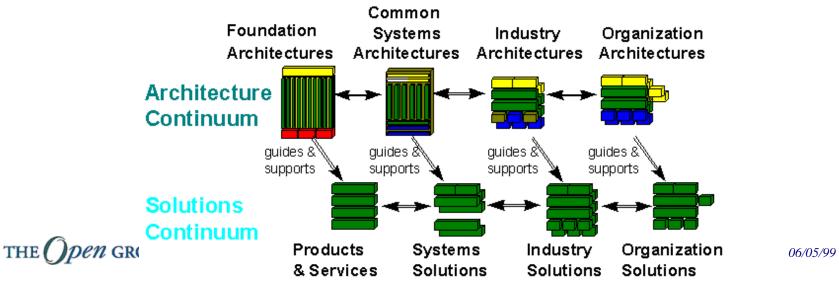


# NCR's Experiences with an "Architecture Continuum"



- 12

- The concept and structure works!
- Foundation for viable, efficient IT Consulting service
- Predefined Common Systems and Industry Architectures and Architecture Building Blocks helps
  - \* Speeds up delivery of Customer-specific Architectures
  - \* Helps in planning the Solutions Continuum, developing and selecting compliant NCR and 3rd party products



# Using Visual Tools to Make the Architecture Development and Maintenance more Efficient



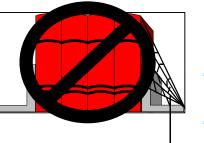
# New Demands to

**Strategic IT Architecture Planning** 



The traditional paper-based approach meant **A better approach should** ...

- Thorough, correct (and expensive) IT plans that are
  - \* ... difficult to maintain and keep relevant,
  - \* ... hard to keep aligned with evolving business needs,
  - \* ...an obstacle to continuous knowledge capturing and sharing.
- … and therefore often suffers from the "IT Plan Gathering Dust" syndrome

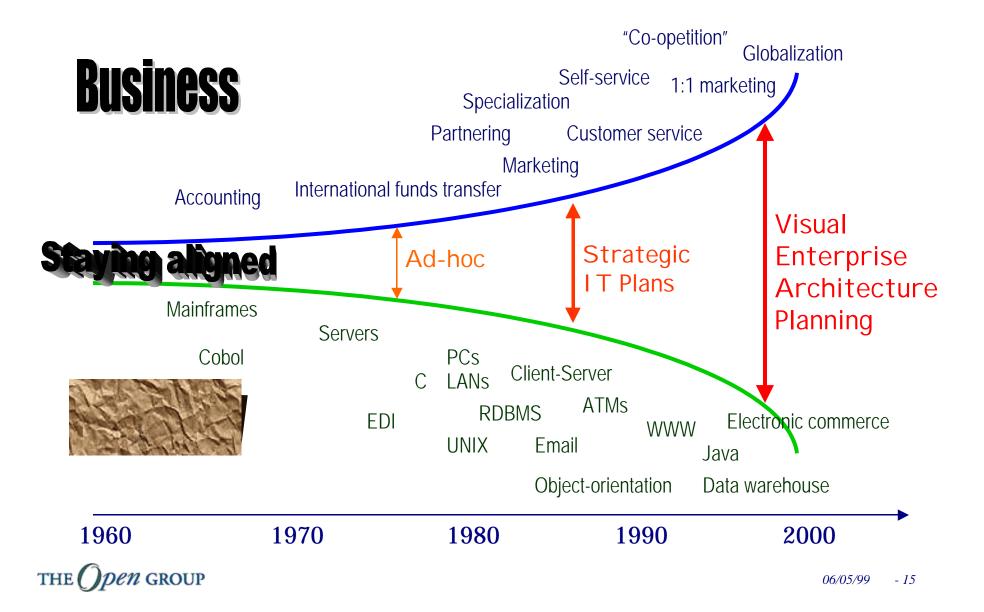


THE *Open* group

- Provide flexible, iterative incorporation of existing work
  - \* Technology policies
  - \* Business process models
  - \* Data models
  - \* Existing IT environment
- Ensure continuous alignment with business
  - Manage effect of changed business priorities
  - \* "What-if" analysis
- Publicize the strategic IT direction
- Maintain the IT plan operational and up-to-date



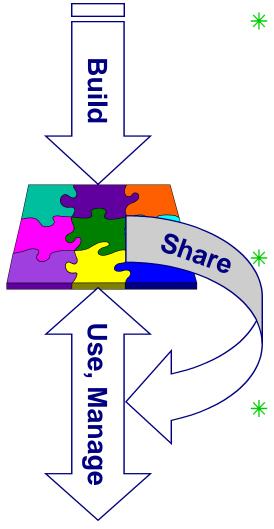
# Business and IT Changes Requires Effective IT Architecture Management





# **Old Approach**





THE *Open* group

\* Build

- Traditional "paper-ware" difficult to keep consistent
- Often "start from scratch", not leveraging existing work
- Method predefined
- Chronological method (as opposed to interactive where knowledge can be continuously captured)
- Difficult to visualize progress and use in interviews, etc.

### \* Share

- Paper binders difficult to disperse in organization
- Difficult to navigate
- Difficult to provide feed-back

### \* Use, Manage

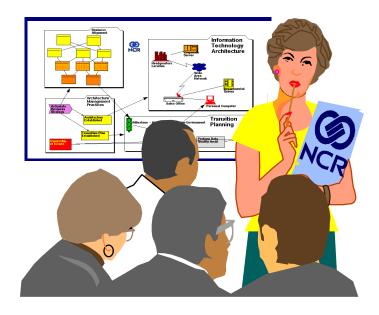
- Difficult to maintain and keep relevant
- Hard to keep aligned with evolving business needs
- One target architecture a large effort to see consequences of changed assumptions

# **The Ideal IT Planning**



## \* Build

- Iterative, incremental, flexible
- Incorporate and leverage existing pieces
- Holistic, consistent, rigorous method
- Freedom of choice of architecture methods (predefined, but also others)
- Visualization as a help in the creation process





Jse, Manage



Build

Use,

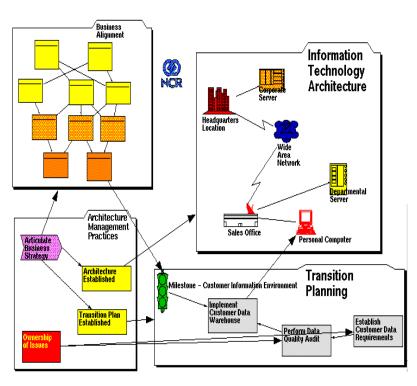
Manage

# **The Ideal IT Planning**



## \* Share

- Promote strategic IT plan to organization
- Accessible to stakeholders (e.g. Intranet access)
- Visible, visual
- Easy navigation, selected views
- Architecture management framework / discipline



THE *Open* group

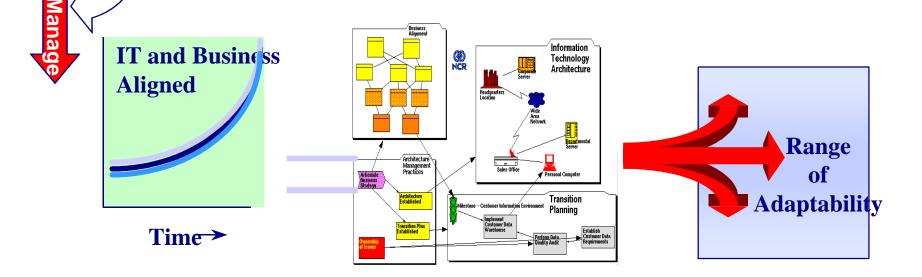
Build

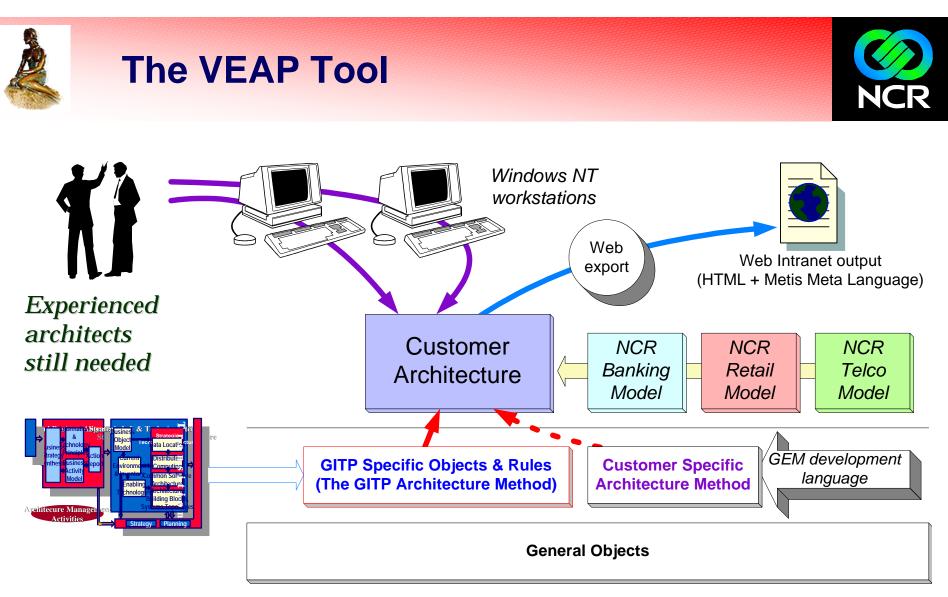
# **The Ideal IT Planning**

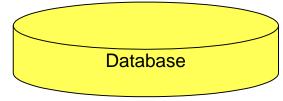


\* Use, manage

- Demonstrate and maintain alignment of IT to business
- Foundation for decisions on IT projects
- Test and verify a variety of future scenarios (CAAD), based on changed business and technology requirements
- Drive down costs and increase speed of maintenance







## THE *Open* group

06/05/99 - 20

