From one **Enterprise City**

...to more **Autonomous Districts**

The value chain

- Access & Explore
- Field and Asset Development
- Conventional Production
- Unconventional Production
- Renewable Production
- Flow Assurance & Marketing
- Corporate
Connected Architectural Districts

Access and Explore

Conventional Production

Field and Asset Development

Corporate

Unconventional Production

Renewable Production

Flow Assurance and Marketing

Data and Information

Digital Platform
Assume you were challenged to extend this building…

Would you dare to start on this without knowing?

• If the foundation can support more weight?
• Where the water pipes and electrical wires are located?
• Etc.

NO!
You must understand the current architecture in order to do changes.
Most organisations have accidental architecture
- Andy Kyte, Gartner

... but their vision for the future was probably NOT like this

- Andy Kyte, Gartner
«Vision without implementation is a hallucination.»
- Thomas Edison

**EITA Ambition**
From reactively documenting what we have to proactively manage and improve the business

**The desired future**
Must drive the behavior of activities and projects
Enterprise IT Architecture

Current state
Understand what we have so we can effectively do changes

Future state
What we do to strategically guide investments

Architects
Make knowledge available to support current and future business operations

The «Statoil House»

Business Architecture
Information & Data Architecture
Application Architecture
Technical Architecture
Enterprise Architecture...

is about the business
is about the enterprise’s future state
is about controlled change in a positive direction
Enterprise Architecture (EA) – is about

“...translating business vision and strategy into effective enterprise change...”

<table>
<thead>
<tr>
<th>Business Perspective</th>
<th>IT Perspective</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Architecture</td>
<td>Information &amp; Data Architecture</td>
</tr>
<tr>
<td></td>
<td>Application Architecture</td>
</tr>
<tr>
<td></td>
<td>Technical Architecture</td>
</tr>
</tbody>
</table>

people, process, organisation, capability
Enterprise Architecture Layers

**Business Architecture**
The business policies, strategies, people, processes, business rules, products, services, customers, geographical span, partners and competitors define the enterprise. The business architecture is thus the context within which the business operates.

**Information & Data Architecture**
All the sources of information, supporting business processes and decision processes, including paper, graphics, video, speech and thought that defines the sources and destinations of information, its flow through the organisation, as well as the rules for persistence, defines the types of data, their form, and the rules that govern their use.

**Application Architecture**
The applications that the enterprise chooses to access and manipulate its data also help to define its ability to communicate internally and, through electronic commerce, externally.

**Technical Architecture**
Underpinning the other layers, the technology of the enterprise enables or disables the enterprise in its execution of its business strategy. The implication for the technology architecture is that the choice of servers, client devices, databases, middleware and network components must be linked ultimately to the policies and goals of the business architecture.
# Architect Roles

<table>
<thead>
<tr>
<th>Role</th>
<th>Short description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chief Enterprise IT Architect</td>
<td>Lead the overall EITA work in Statoil. Accountable for methodology, governance and principles.</td>
</tr>
<tr>
<td>Lead Data Architect</td>
<td>Lead creation of policies and controls for the appropriate protection of enterprise information. Identify new sources of data to gain business insight.</td>
</tr>
<tr>
<td>Lead IT Architect</td>
<td>Lead the EITA work within own district. Accountable for articulating what business do, and participate in business architecture work.</td>
</tr>
<tr>
<td>Data &amp; Solution Architect</td>
<td>Lead the EITA work within own solution area (portfolio). Accountable for translating and communicating business strategy impact on current and future solution and information architecture.</td>
</tr>
<tr>
<td>Software Architect</td>
<td>Accountable for implementing solutions in line with future architecture. Define and maintain software and technical architecture. Articulate and manage technical debt.</td>
</tr>
<tr>
<td>Technology Architects; IT Domain Architects</td>
<td>Accountable for specialist competence in IT professional domains</td>
</tr>
</tbody>
</table>
Architecture Roles Coverage

Organisational «home» for architects

- Business Architecture
- Information & Data Architecture
- Application Architecture
- Technical Architecture

Chief Enterprise IT Architect
Lead Architect
Data & Solution Architect
Software Architect
Technology Architect

CIT
BA-IT and Functions
Service Provider

Lead IT Architect
Lead Data Architect