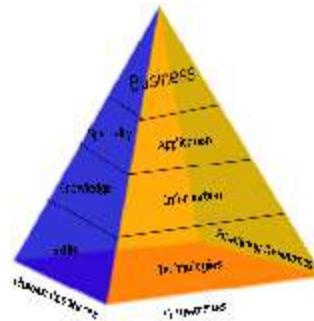# LEA
Master Plan & Notional Target Architecture

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Presentation Goal

- Distinguish EA from Enterprise wide application development
- Introduce the concept of master plan and notional architecture.
- Adopt the master plan concept from city planning.
- The notional architecture is a high level architecture on how business community take advantage of technology evolution.
- The notional architecture is a top down architecture approach in vertical direction.
- It inherit the classical EA model and frame work.
- LEA leverage on FEA and C4ISR approach to prepare the notional architecture drawing sets in the layers of Business, Application, Data and technology.

The vertical alignment Architecture

- It is the vertical architecture theory in the LEA architecture directions as shown on the following figure.
- It is the high level Enterprise mechanical architecture to describe long term enterprise structure.
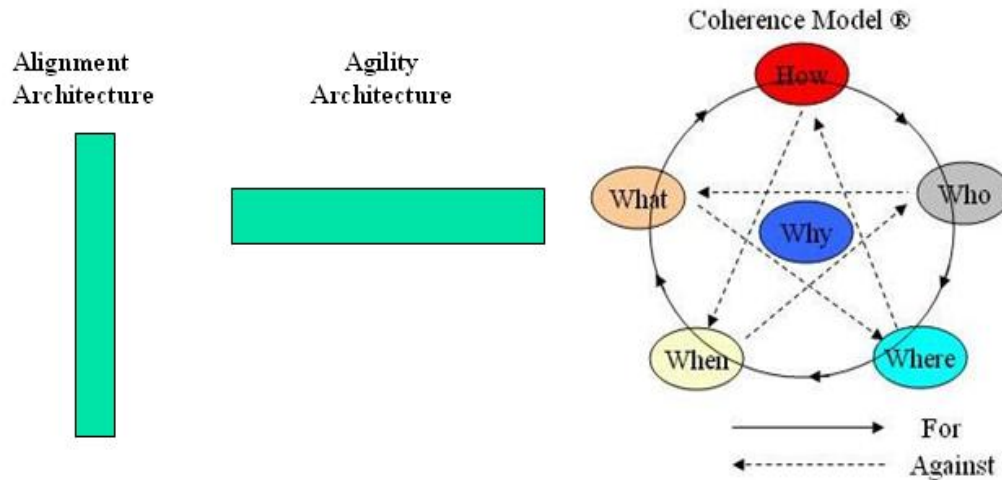
Why master plan and notional architecture?

- Master plan and notional architecture is the overall guide line and long term plan.
- It is the beginning of EA rather than the end.
- It is fundamental to support:
    - Business community comprehension of EA.
    - The light version of Enterprise Architecture.
    - Identify the enterprise line of business.
    - The cross cutting architecture.
    - The collaboration.
    - The knowledge management.
    - Segment architecture.

The light version of classical EA

- Mater plan and notional architecture is the light version of the good old EA practice.
- **Master plan:** The holistic long term plan for the enterprise.
- **Notional Architecture** is the high level architecture plan
- Master plan and notional architecture is business orientated.
  - It plans how business community take advantage of technology evolution.
  - It should be intuitive and comprehensive without special architecture training.

Beyond IT

- Business analyst must take business, Finance, Human and IT resources into consideration.

- LEA use architecture principle beyond IT architecture.

- This presentation illustrate the master plan concept from the aspect of IT.

- IT applies to all the following area:
  - Business architecture
  - IT resources architecture.
  - Financial resources architecture
 - Human resources architecture.

The level of effort

- Master plan and notional target architecture dose not require significant investment of time and resources.

- The goal is to establish the enterprise architecture guideline and principle rather than design the enterprise wide solution architecture blueprint.

- It is a flexible practice for business community comprehension.

- Master plan and notional target architecture should not take longer than six months.

Drawing sets & spread sheets

- Master plan and notional architecture is prepared in drawing sets and spread sheets.
- The architecture drawing sets consist of :
  - The Business Architecture
  - The Application Architecture
  - The Data Architecture
  - The Technology Architecture
- Enterprise Architects are trained to prepare the architecture drawings as the traditional architects do.
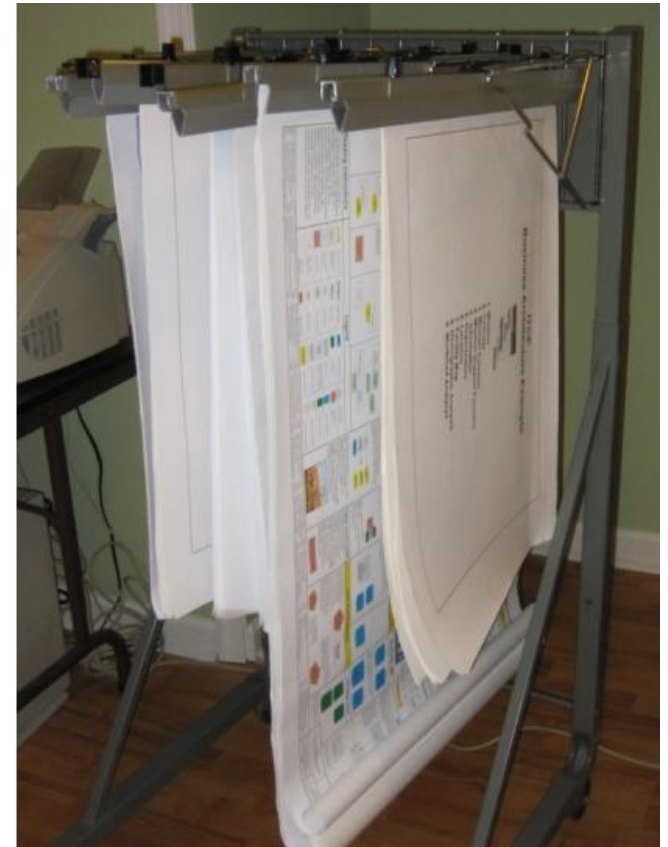
Adopt Master plan from city planning

- EA is analogy to city planning.
- The enterprise master plan is adopted from popular city planning practice as shown on the figure.
- The mater plan is a holistic and long term planning which serve as the architecture principle.
- It out line the plan on how business take advantage of different resources.
- It is a collaborative effort.

CITY OF WASHINGTON
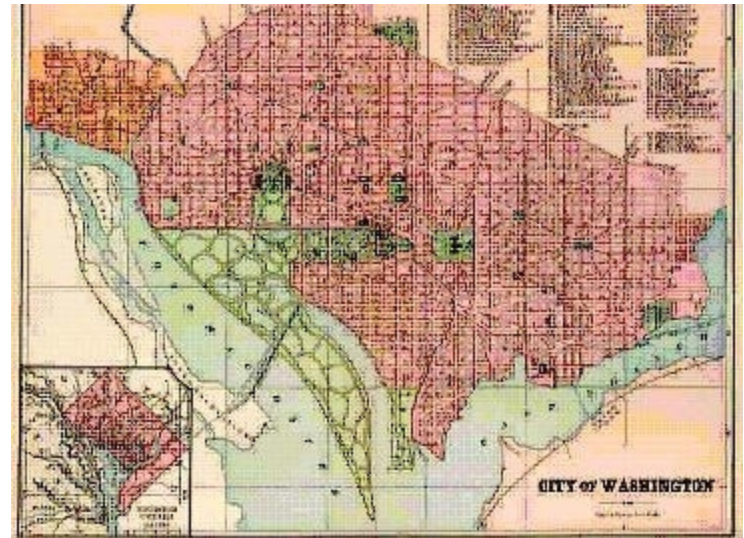
Enterprise Master plan use enterprise map

- The enterprise master plan is prepared using the enterprise maps.
- The enterprise maps does not only describe the as is environment but also the future environment.
- The master plan is created on a additional layer of the enterprise map.
- The master plan layer use different legend to indicate the master plan.
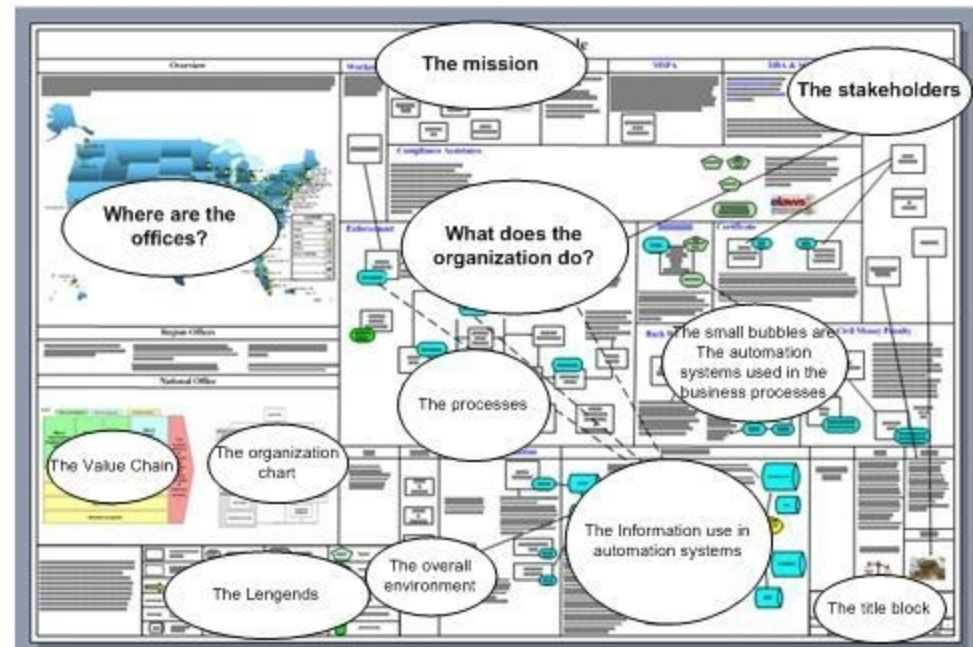
The Notional Target Architecture

- Notional Target architecture elaborate the master plan.
- The notional target architecture inherit the classical EA model and framework.
- The notional target architecture consist of the following products
    - The business architecture
    - The Application architecture
    - The data architecture

The Alignment Architecture

- Notional architecture is an alignment architecture.
- The alignment framework orderly arrange how business takes advantage of technology evolution.
- It is not the solution architecture to design the applications.
- In a layman's term, It only concerns about how to use the vehicles instead of how to build a vehicle.
- Notional architecture have exclude the technology architecture design.

Leave the detail for solution architecture

- Notional Architecture is the long term architecture plan and guide line.
- It is not a real architecture blueprint for construction and making transition plan.
- Segment architecture elaborate the notional architecture plan to close business performance gaps.
- Solution architecture design the detail architecture blueprint for construction.
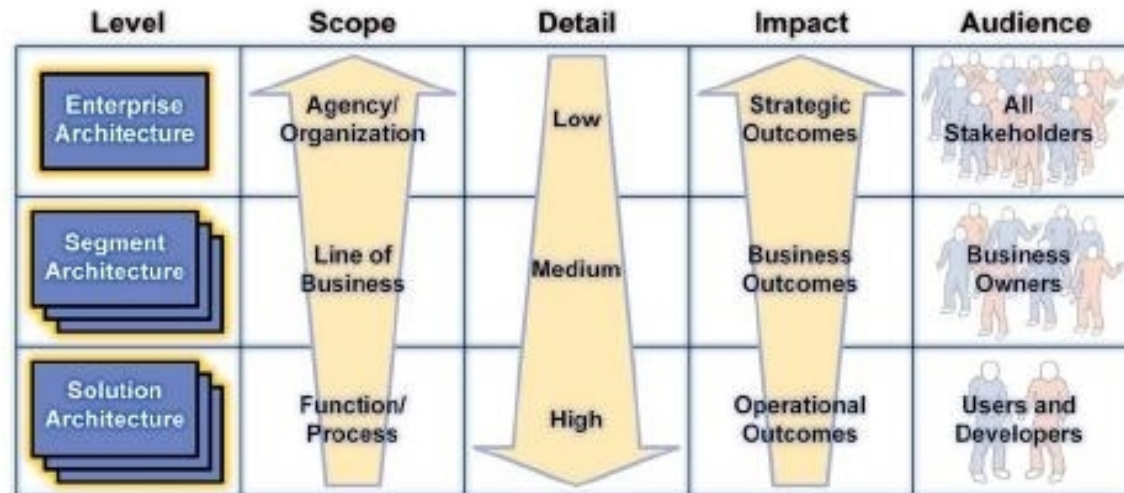
Level	Scope	Detail	Impact	Audience
Enterprise Architecture	Agency/Organization	Low	Strategic Outcomes	All Stakeholders
Segment Architecture	Line of Business	Medium	Business Outcomes	Business Owners
Solution Architecture	Function/Process	High	Operational Outcomes	Users and Developers

Figure 1-3: Architectural Levels and Attributes

The notional architecture model

- The notional target architecture inherit the classical EA approach at the very high level.

- EA apply architecture principle not only on IT but also on human, financial and industrial resources.

- Use IT to illustrate the notional architecture approach.

- The same architecture principle applies to every area.
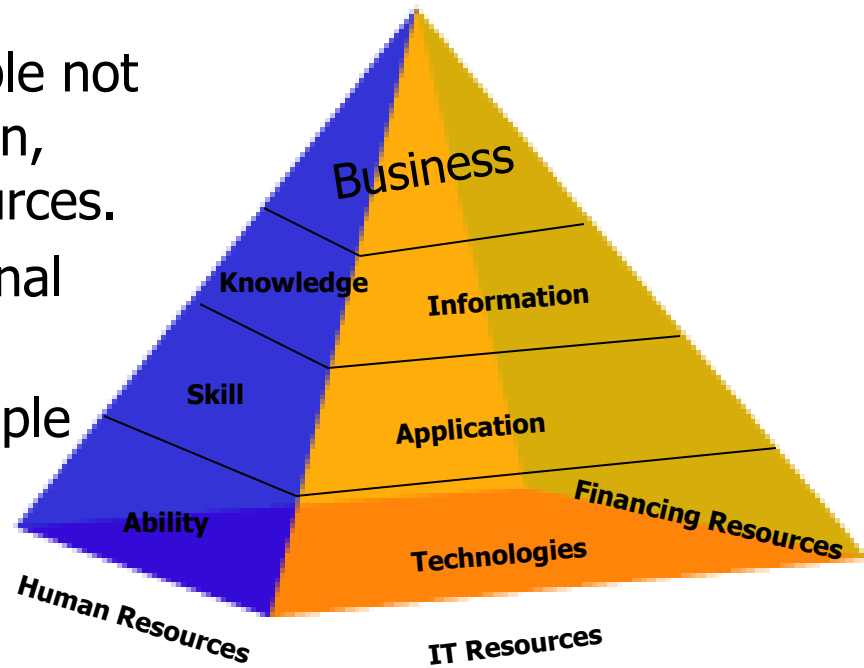
The notional target architecture framework

- Notional Target architecture elaborate the master plan.
- The notional target architecture inherit the classical EA model and framework.

	WHY	WHAT	HOW	WHO	WHERE	WHEN
Business Architecture	Enterprise Missions	Enterprise Information	Enterprise Functions	Enterprise Organizations	Enterprise Locations	Enterprise Performance
Application Architecture	Processes/ Application	Application catalog	Application Connectivity	Application Stakeholders	Application Services	Life Cycle Time Line
Data Architecture	Application/ information	Information Landscape	Information Exchange	Information Stakeholders	Information Resources	Life Cycle Time Line
Security Architecture	Functions/ Security	Security Control	Security Activities	Security Stakeholders	Security Services	Life Cycle Time Line
Infrastructure Architecture	Application Technologies	Data Technologies	Collaboration Technologies	Security Technologies	Platform Technologies	Life Cycle Time Line