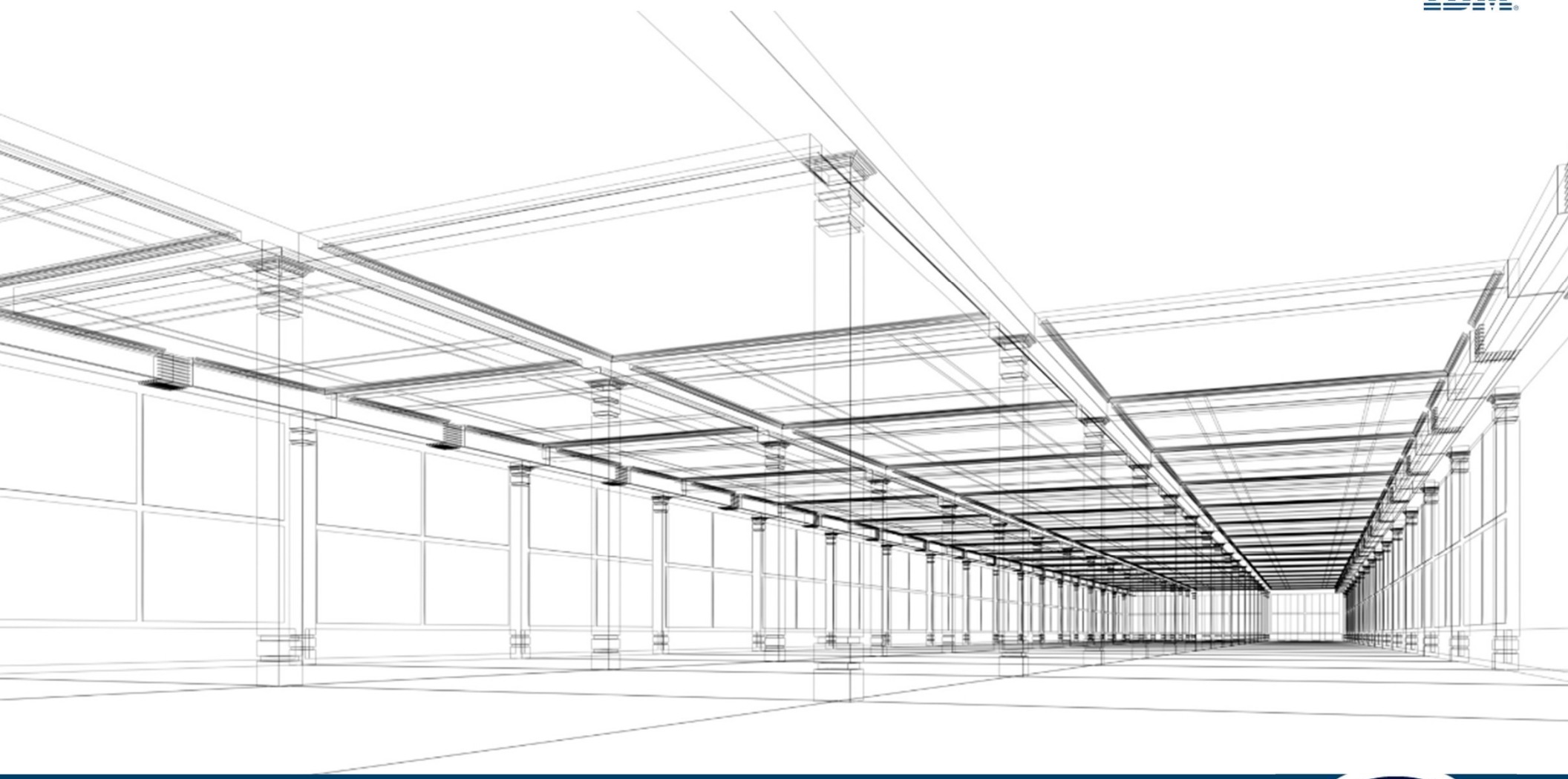

Architectural Thinking Overview

IBM Professional Series: Architectural Thinking Workshop
IBM Client Education Version 7.0

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Welcome to Architectural Thinking!

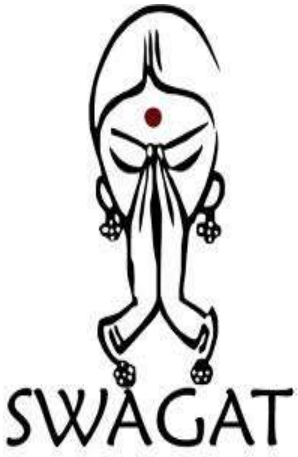
Bienvenido

Willkommen

Bem-vindo!

Welcome!

Welkom



اهلا و سهلا

歓迎

Bienvenue

Piacere

歡迎

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Workshop objectives

This workshop should enable you to achieve the following:

- Describe architecture and architecture models, such as functional or operational.
- Understand how to elicit, analyze and select architecturally significant requirements.
- Define and classify nonfunctional requirements and explain how to architect for them.
- Explain an Architecture Overview and its relationship with the Component and Operational Models.
- Define architecture decisions, for example, use SalesForce as a CRM package.
- Apply architectural principles, for example, buy before build
- Identify the functional aspects of an IT architecture and some key design principles used in building Component Models, such as loose coupling and strong cohesion
- Explain the approach, steps and artifacts used to define an Operational Model (e.g. Location Model, Node Model, Deployment Model, etc.).
- Describe technical reviews and how to incorporate full life cycle validation and verification into architectural thinking
- Understand how architects operate within agile teams and how agile frameworks and approaches affect architectural styles.

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The instructors for this workshop

Instructor	Title

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Let us take a few minutes to meet each other

Please introduce yourself by giving us the following details about yourself:

- Your name
- Your current role
- Your experience in IT
- Your experience on the job
- Your areas of specialization
- What you expect to get from this class

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Administrative items

- Please turn mobile phones off
- Facilities
- In case of fire
- Prompt start, please
- Estimated finish times
- Lunch time
- There will be morning and afternoon breaks

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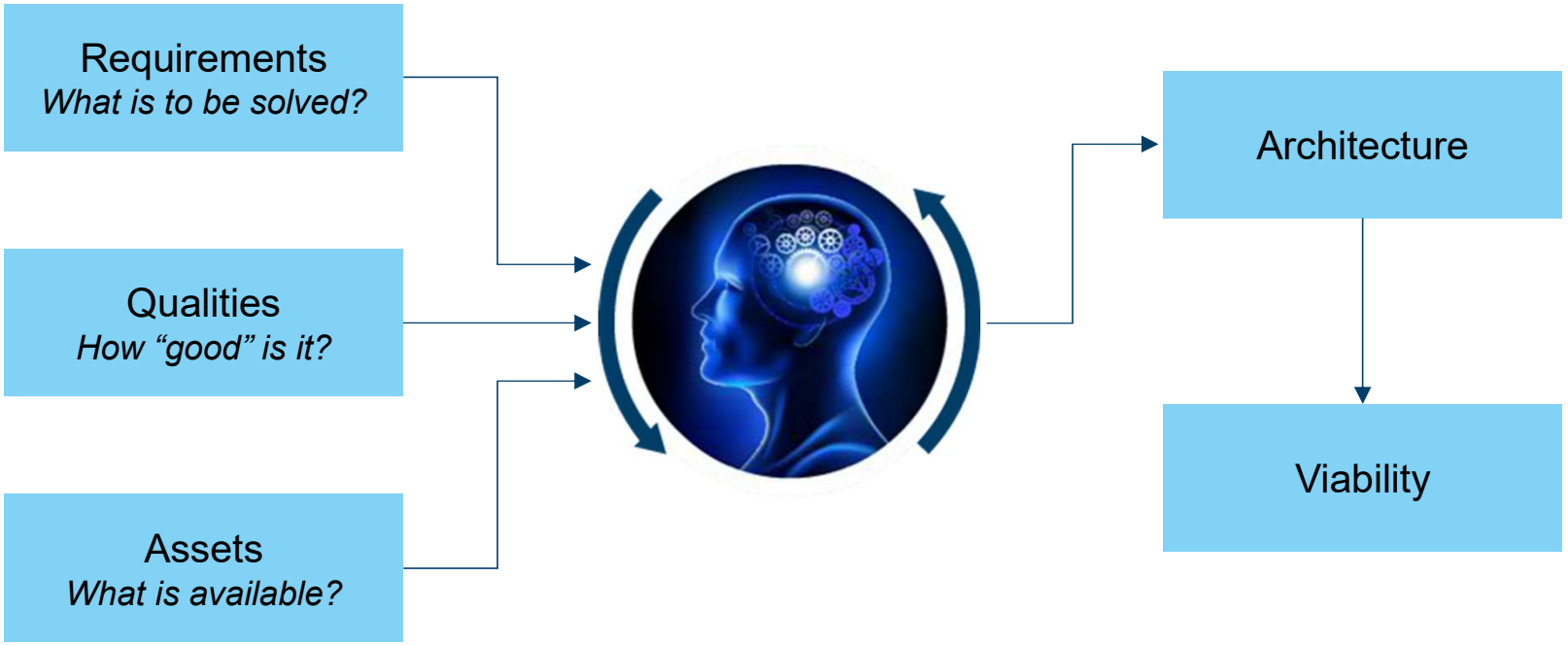
Architectural thinking involves inputs, processes, and outputs (1 of 2)



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Architectural thinking involves inputs, processes, and outputs (2 of 2)

What's the IT system got to do?

Requirements
What is to be solved?

Qualities
How "good" is it?

Assets
What is available?

Is there anything that's done this before?

These are the system's parts, and this is how it works together.

Architecture

Viability

After all that, will it work?

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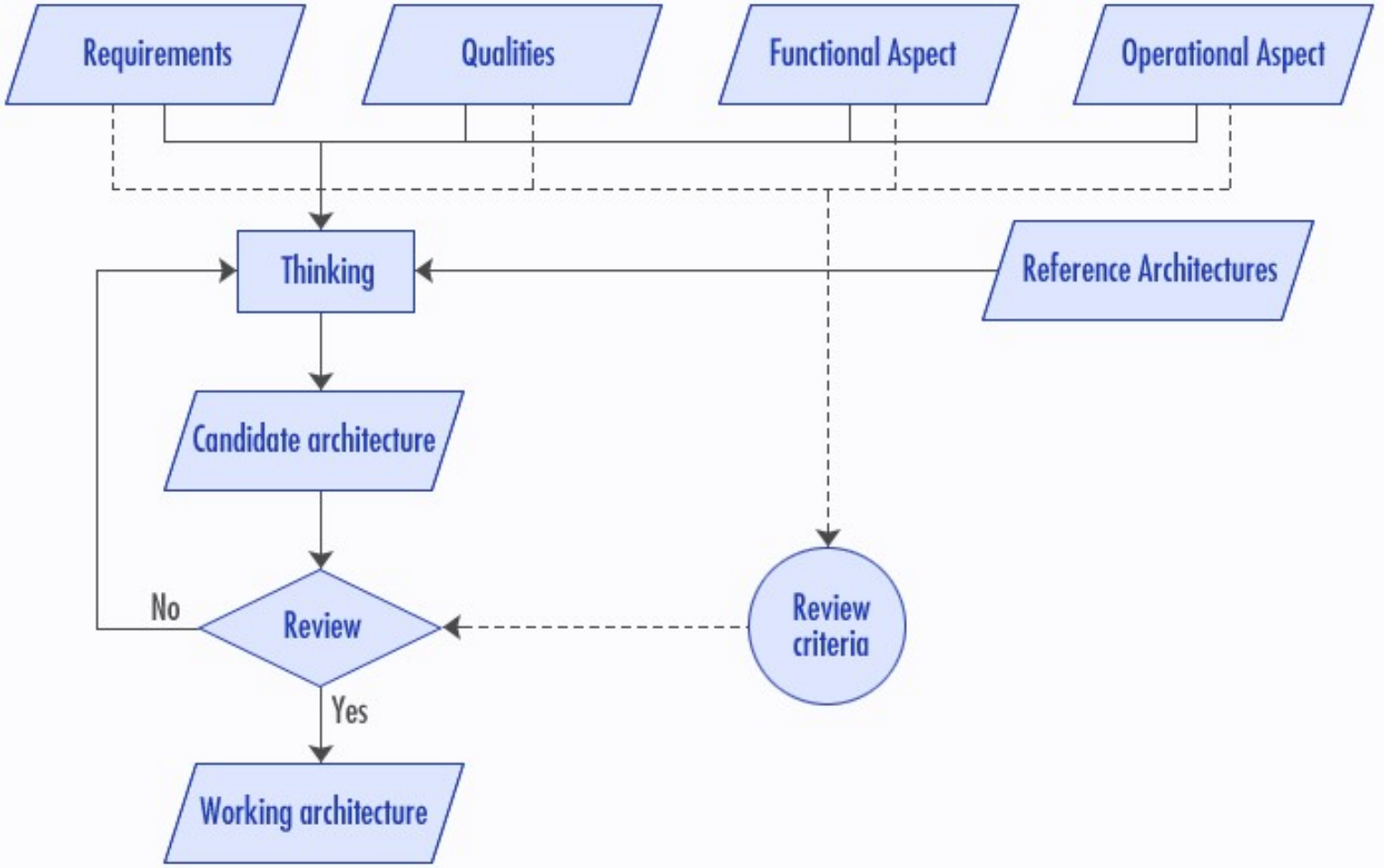
Architectural thinking is iterative and complex



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What architectural thinking involves

- Learning a variety of architecture styles and approaches
- Avoiding the “golden hammer” anti-pattern
- Not rushing to a solution
- Understanding that fixing one problem often causes another
- Looking for unconventional solutions

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Agenda

Day 1

- Architectural Thinking Overview
- What Is Architecture?
- Requirements Aspect: Functional
- Lunch
- Requirements Aspect: Nonfunctional
- Case Study Introduction
- Exercise 1 and Review
- Architectural Decisions and Principles
- Architecture Overview

Day 2

- Review Day 1
- Exercise 2 and Review
- Functional Aspect
- Exercise 3 and Review
- Lunch
- Operational Aspect Part 1
- Exercise 4 and Review

Day 3

- Review Day 2
- Operational Aspect Part 2
- Exercise 5 and Review
- Validation and Viability
- Lunch
- Agile for Architects – Part 1
- Exercise 6 and Review
- Agile for Architects – Part 2
- Summary and Close

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Before we get started

Time for a question

What statement best describes the anti-pattern called "golden hammer?"

A. The ultimate goal in solving any problem is to create a perfect solution, like a golden hammer.

B. When you have a preferred solution style (a “golden hammer”), every problem begins to look the same, like a silver nail.

C. Sometimes a solution that looks good, like a “golden hammer”, proves too unrealistic to be of any practical value.

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Now, let us get started

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