

About Speaker



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Industry connect since 2001 (2 decades)

Software Architecture and Software Project Management – A joint venture for a Software Success

PRESENTER: HIRAL (VYAS) DAVE

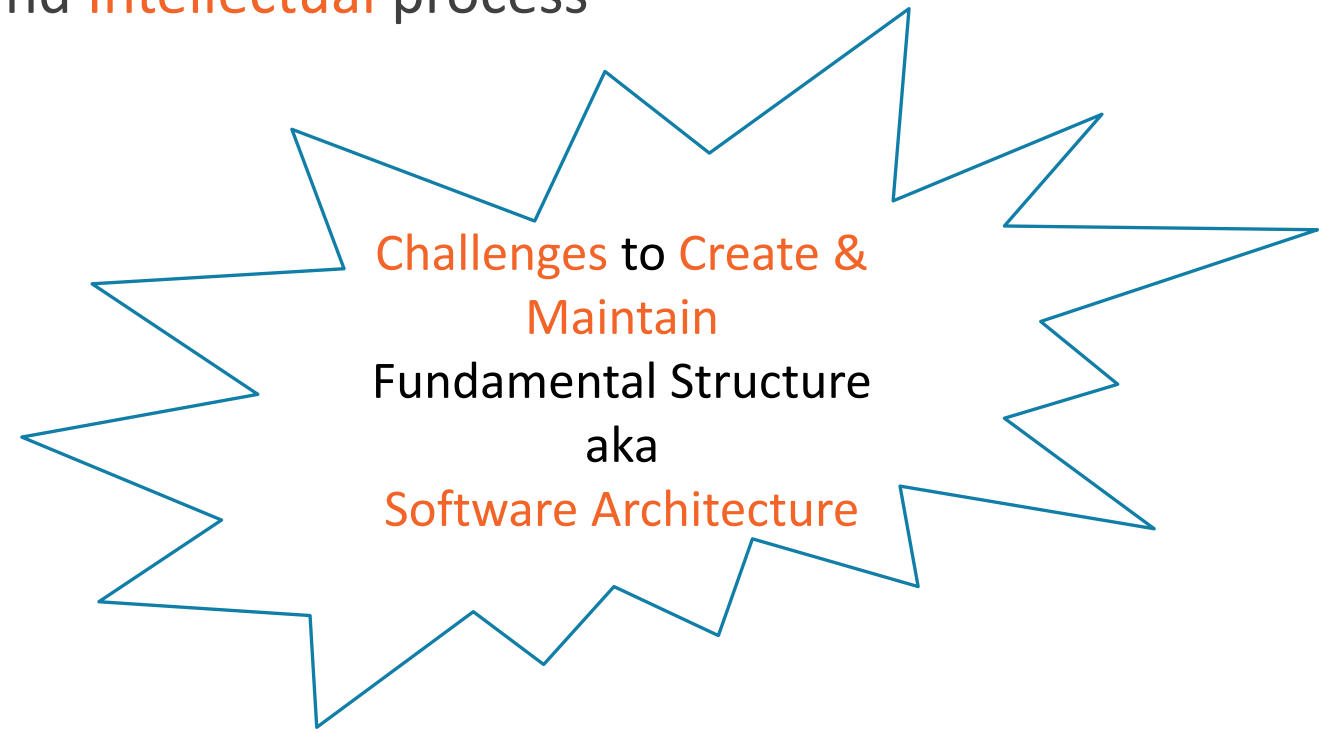
INDEPENDENT SOFTWARE CONSULTANT | FOUNDER & CEO, HVDSOFT PVT. LTD.

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Software

Software,

- Result of **Knowledge** work and **Intellectual** process
- **Intangible**
- **Adaptable** in nature



Software Projects

Software Projects,

- Endeavour undertaken to create unique / distinctive software product, service or result
- Majorly,
 - **Create** new software products
 - **Modify** an existing software products
 - **Extend** the capabilities of products...
- Management would have stages namely,
 - **Initiating, Planning, Executing, M & C, Closure**




Software Projects: Create vs Modify / Extend


GREEN FIELD

Start Fresh
Learn from errors
Scope to Regulate well 



BROWN FIELD
[NOT EVERYTHING IS BROWN 😊]

Fit-In what Exists
Learn to Live with Errors
Scope of Improvement 



Common Challenges

What is Needed?

What is Feasible?

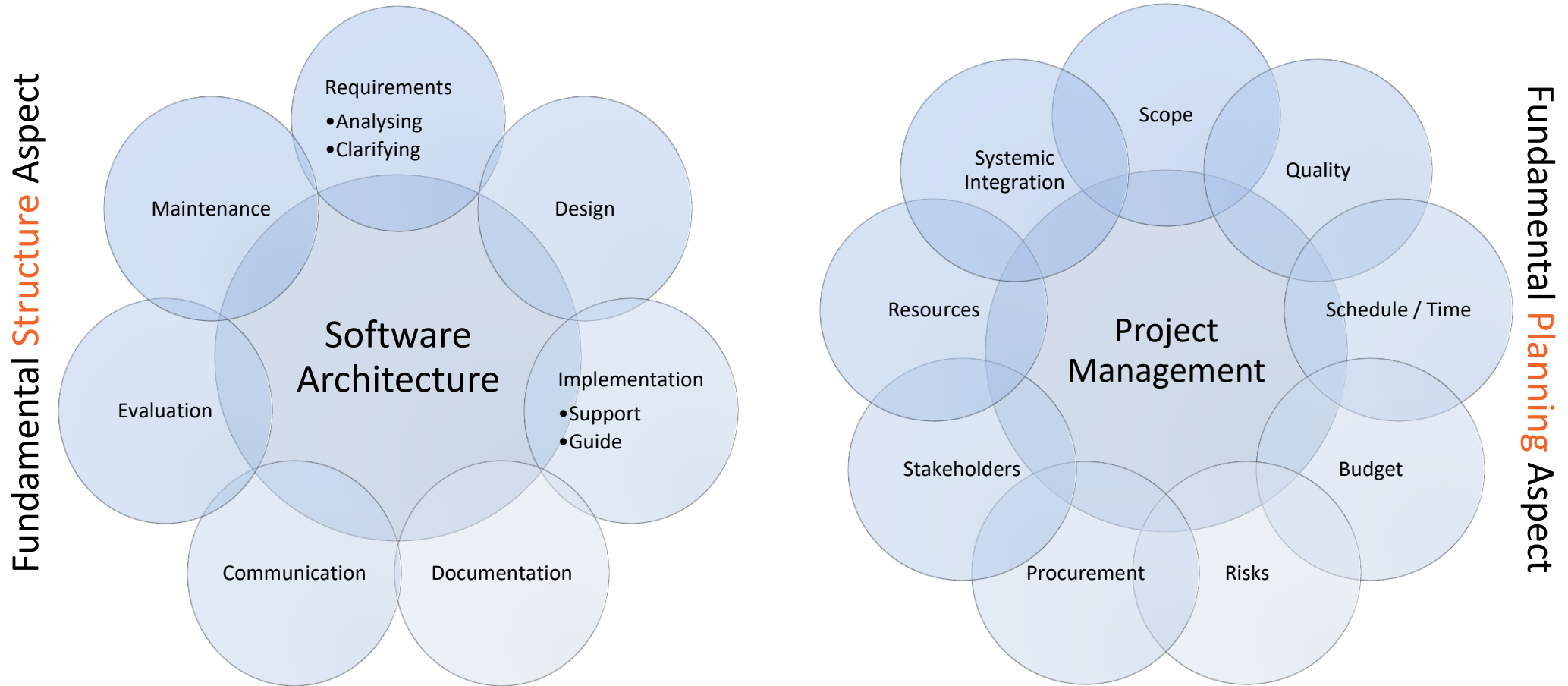
Changing
Requirements

Life Cycle Choice

- Predictive
- Adaptive

Rapid Rate of Change
in
Technology

Tasks – Irrespective of Field Type & Life Cycle



Software Architecture Project Management

Requirements	Analysis Clarification on Business Goals
Design	Influencing Factors – Organizational Level Resource Availability Procurement Possibility Infrastructure Quality Attributes Planning Risk
Implementation	Team Co-operation Schedule Control
Documentation	Know Organizational Policies, Standards, Processes Expected Audience Repository
Communication	Get Stakeholder Matrix Stakeholder Analysis
Evaluation	Plan evaluation [External vs Internal team]
Maintenance	Handle Software Entropy Technical Debt

Project Management Software Architecture

Scope Management	Create WBS Control Scope
Time Management	Sequence Activities Control Schedules
Cost Management	Plan Cost Track Cost
Procurement Management	Identifying Suppliers Procuring Infrastructure
Quality Management	Quality Attributes Planning Quality Assurance
Resource Management	Plan Training Plan Resources
Communications	Stakeholders

Software Architecture and Project Management

- Has **Synergistic** effect to each other
- **Vital** for an desired outcome is **Balance** between the 2



Software Architect

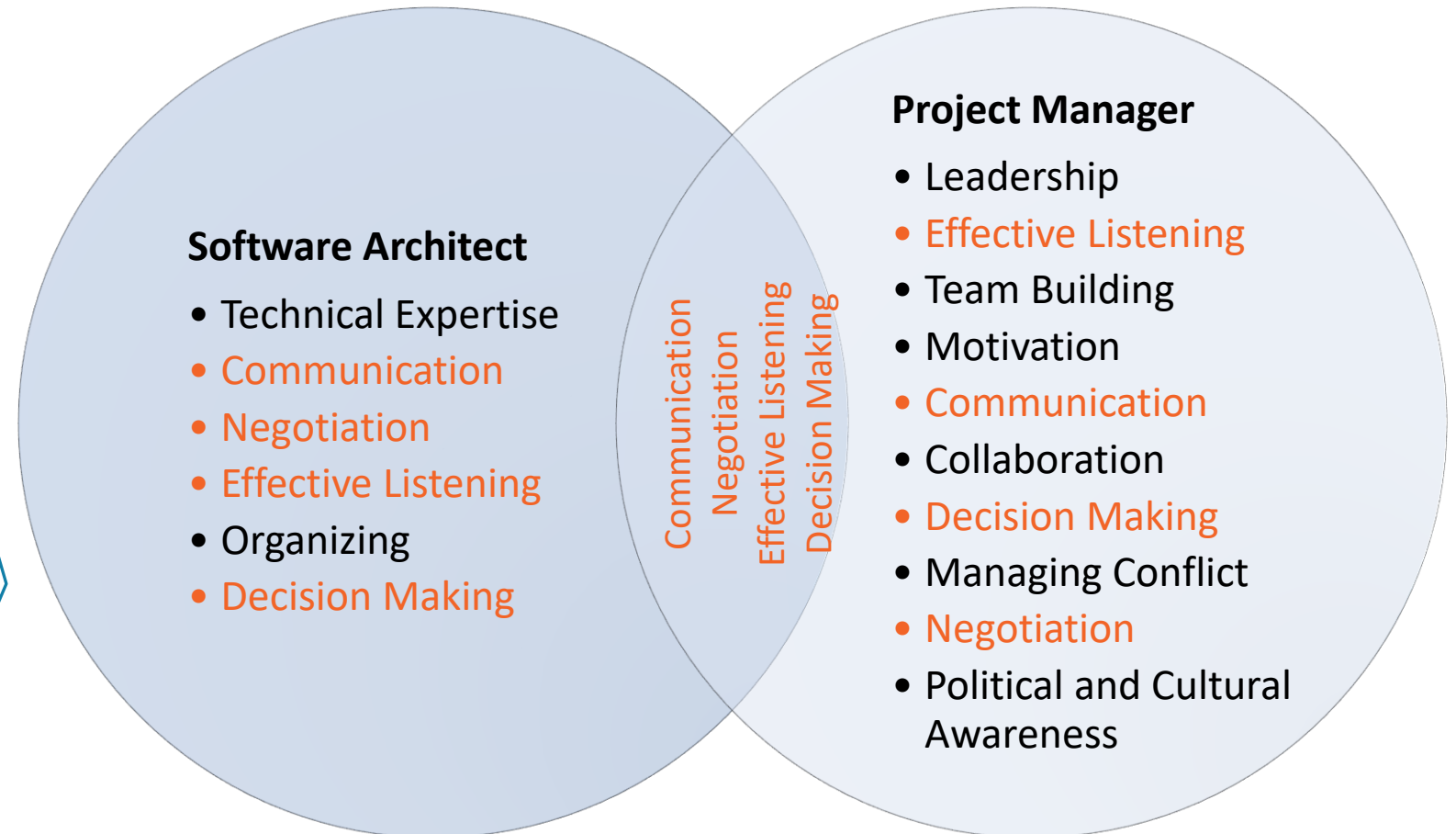


Project Manager

- **Consultant** to each other
- **Joint Leaders** for a software success
- **Enhances** each others power

Skills

Application of skills, knowledge, tools and techniques to meet the desired outcome in the given **Context** while **Balancing Competing Constraints**
Scope | Quality | Schedule | **Budget** | Resources | Risks



One Professional - Combined Role

Technical Manager | Tech Consultant | Solution Architect ...

Benefits:

- Tech Solutions - Developer's Delight
- Compensate one - Management Delight
- Good for **small size projects**

Challenges:

- Increased Workload
- Design Compromise - Implementation Loss
- Management Compromise - Management Loss

A large, blue-outlined starburst graphic with multiple points, containing text about challenges.

Learning Curve |
Time Crunch |
People Management
| Affects Software
and Human Health
Challenges ...

Summary

Software Architecture and Project Management **Complement** each other

2 different **P**rofessionals with **2** different **R**oles,

SA-Software **A**rchitect

PM-**P**roject **M**anager, good to have

Goal remains same => **S3** – A **S**uccessful and **S**ustainable **S**oftware

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Thank you | Q & A

