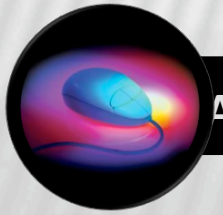
PROMISE

PROCESS MANAGEMENT IN SOFTWARE ENGINEERING



ALLYGILL.CO.UK – Software Process Management made Easier

THE PREMISE FOR PROMISE

- Software Process Improvement initiatives often fail because they are seen as transient activities and are not sustainable
- Software Process Management is an essential full time function within the software development and maintenance environment
- PROMISE will make a Software Process Management function easier to build and run

WHY SOFTWARE PROCESS MANAGEMENT ?

- "Process Improvement" fails to adequately describe all the activities required to establish and sustain an effective process infrastructure
- Process Management encompasses:
  - Process Definition and Implementation
  - Process Control and Monitoring
  - Process Improvement
  - Process Compliance and Assurance
  - Process Management Infrastructure

WHY SOFTWARE PROCESS MANAGEMENT ?

- Software Process Management reinforces the idea of a long term strategic focus for organisations who want to perform better
- Software Process Management allows the enterprise to create the foundations for all future improvement opportunities
- Software Process Management promotes a culture of process and quality awareness

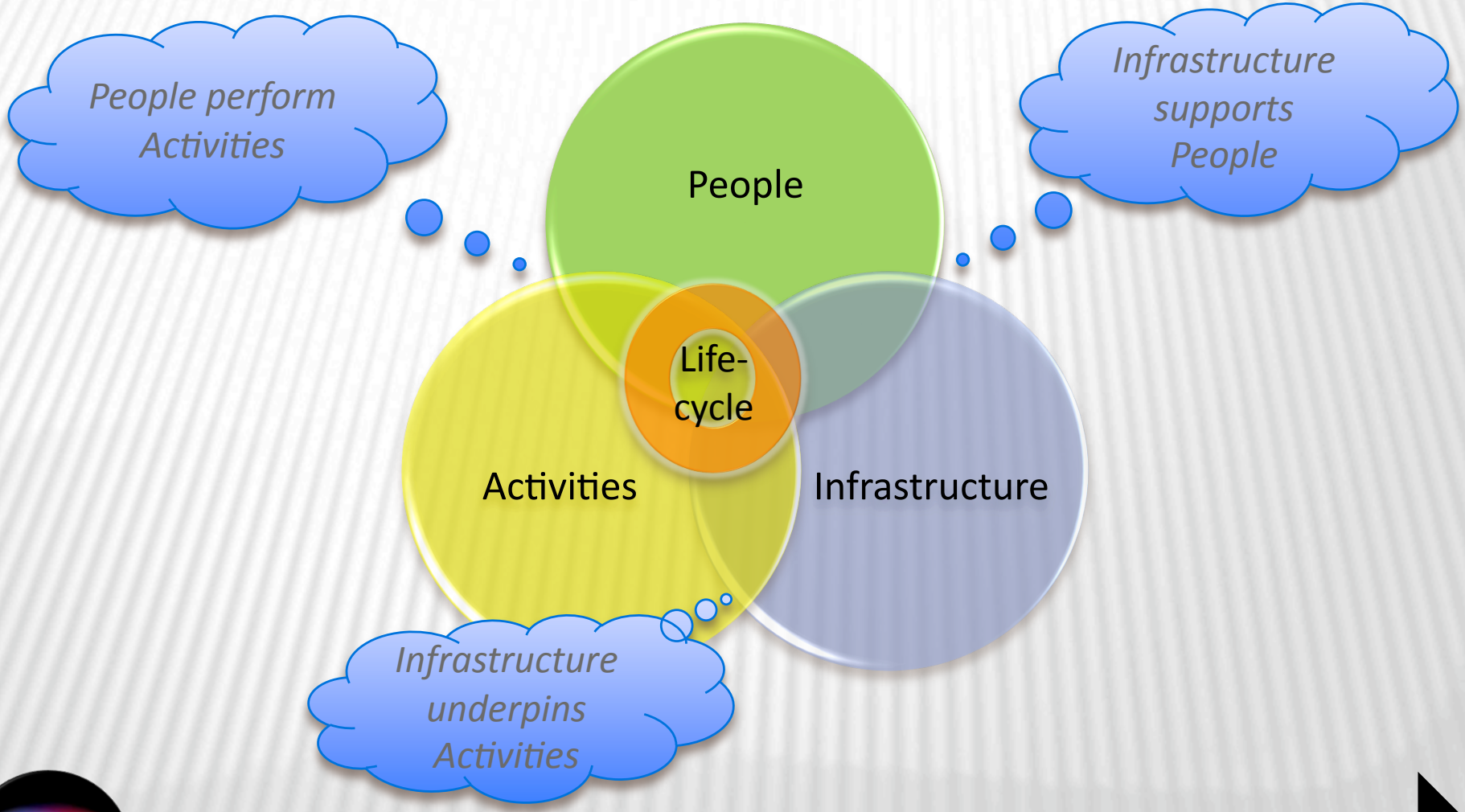
PROMISE – AN INTRODUCTION

- PROMISE - Process Management in Software Engineering – is a model for designing, building and running a Process Management Function within a Software Development enterprise
- PROMISE can be tailored and applied to single or multiple reference models in any size of organisation
- PROMISE focuses on People, Infrastructure and Activities associated with Process Management

PROMISE – AN INTRODUCTION

- PROMISE has been designed for Process and Quality Management leaders and teams, and their managers and executives
- PROMISE will make Software Process Management easier to initiate and sustain
- PROMISE – is the product of twenty five years of experience in Software Engineering, Project Management, Quality Management, Change Management and Process Improvement & Management

PROMISE - ARCHITECTURE



PEOPLE – PERFORM ACTIVITIES

- People are at the heart of PROMISE activities
- Roles and responsibilities are not widely understood even in organisations with a history of SPI
- SPM skills are required across the organisation not just within the SEPG or Quality Forum
- SPM skills must be understood and used by all levels of management
- PROMISE defines roles and responsibilities independently of other corporate job titles and codes

INFRASTRUCTURE – UNDERPINS ACTIVITIES

- Infrastructure refers to the IT and organisational support required to maintain an SPM function
- A solid infrastructure facilitates the execution of SPM activities
- Infrastructure includes process libraries, documentation, data repositories and other supporting tools
- Within PROMISE infrastructure includes reference models and methodologies

ACTIVITIES – OPERATIONAL TASKS IN SPM

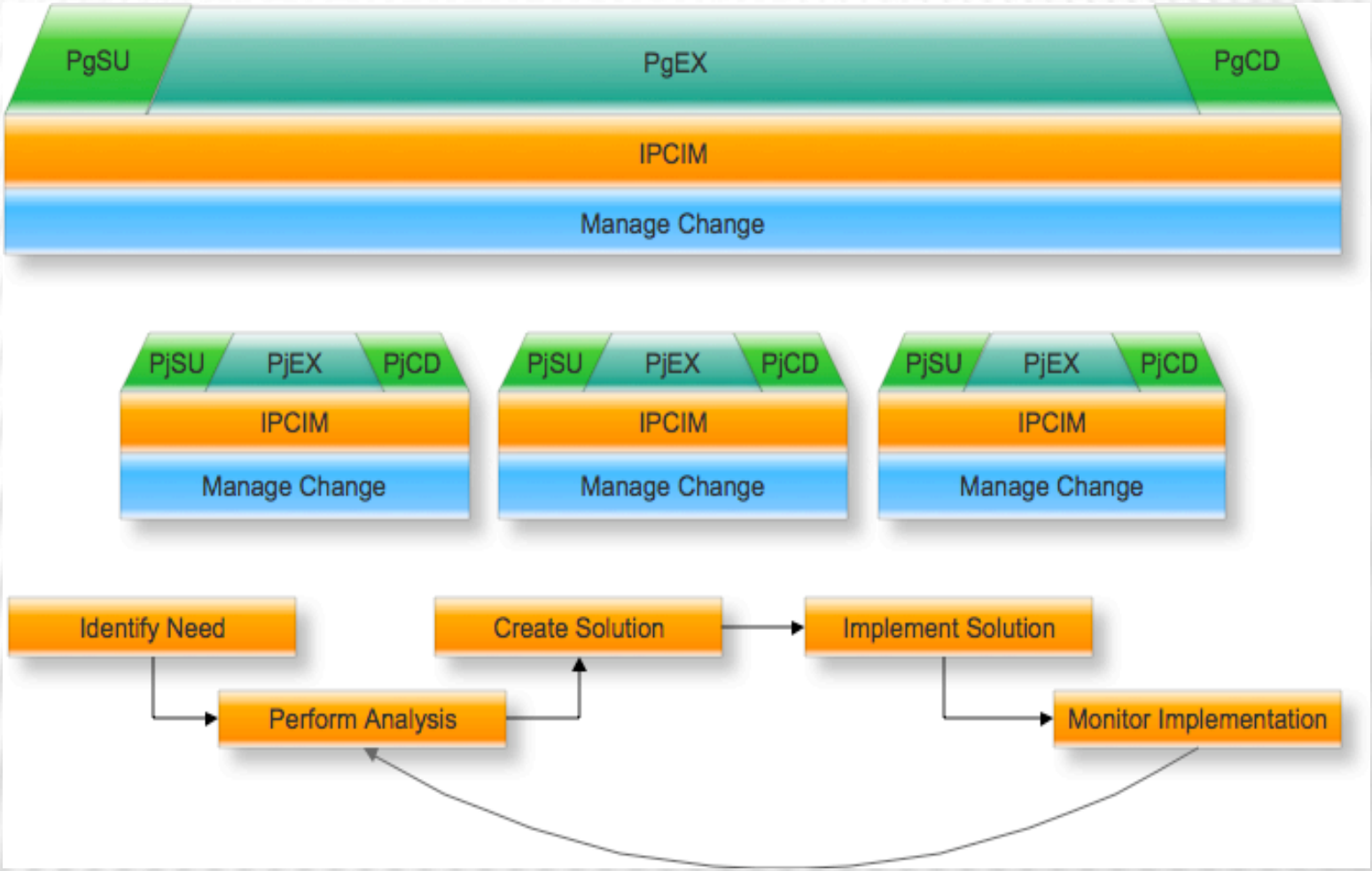
- PROMISE defines the following sets of activities:
  - Process Requirements and Definition
  - Planning and Management
  - Implementation and Deployment
  - Measurement and Control
  - Improvement
  - Compliance and Assurance

PROMISE – THE LIFECYCLE

Level 1 Programme

Level 2 Project/ Sub-Project

IPCIM



INTERPRETING THE LIFECYCLE

- The IPCIM process is at the heart of all programmes, projects and sub-projects
- Programmes, projects and sub-projects have three elements :–
  - Programme/Project Management (PgM/PjM)
  - IPCIM
  - Management of Change (MoC)
- PgM/PjM and MoC elements can use existing corporate methods if they exist

UNDERSTANDING IPCIM

- **Identify Need** – establish programme or project drivers and business requirements
- **Perform Analysis** – understand and define the as-is and to-be models and high level transition plan
- **Create Solution** – build the processes and associated solution definition and pilots
- **Implement Solution** – deploy the solution into the live environment
- **Monitor Implementation** – monitor key performance indicators, measure success and create lessons learned

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PROMISE – FURTHER INFORMATION