



# Process @ Triassic

*Get IT right*

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# Quality Management System

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- Addressing all activities of the software development process
- Periodically updated
- Consists of
  - Procedures
  - Project workflows
  - Checklists
  - Tools
  - Templates

*QMS – The Backbone of the Organization*



## Lifecycles

- Waterfall
- Concurrent Waterfall
- Iterative Waterfall
- Reverse Engineering
- Agile workflow
- Any new lifecycle can be proposed

# Software Development Lifecycle



**Requirements**

**Requirement Analysis**

**Design**

**Coding**

**Testing**

**Installation**

**Maintenance**

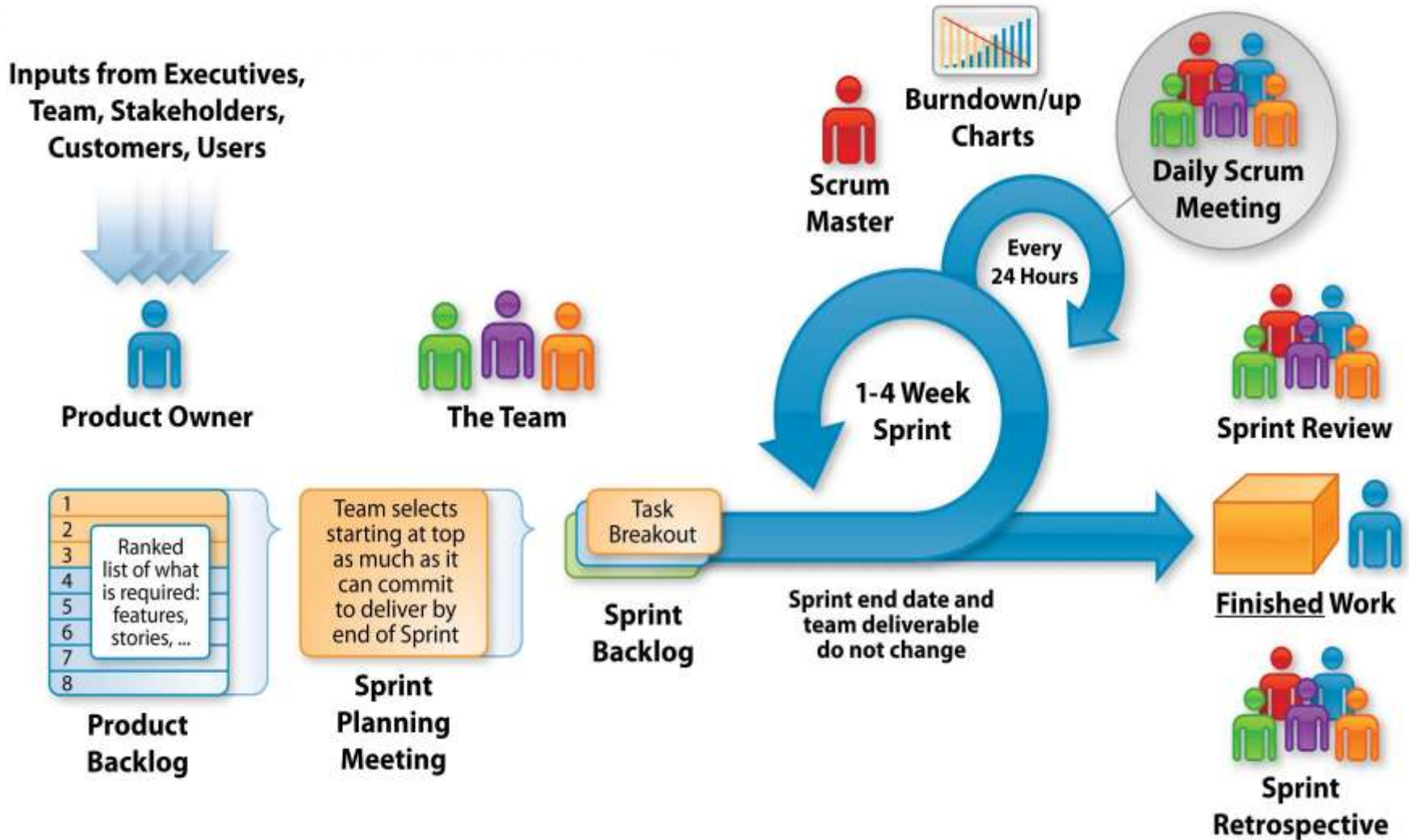
**Final Software**



## Support Activities

- Planning & Estimation
- Risk Management
- Configuration Management
- Metrics and Analysis

# The SCRUM Model



# Defect Prevention & Metrics



- Kick off meetings before each phase
- Self review
- Effective usage of checklists during reviews
- Milestone meetings after each phase and corrective action

- Productivity (eg. 45 LOC/PD for C#)
- Pre shipment Defect Density (eg. 40 Def/KLOC for C#)
- Post Shipment Defect Density (eg. 0.05 Def/KLOC)
- Review Effectiveness (eg. 80%)

Sub process parameters like Coding speed, Code review speed, Cyclomatic code complexity, Testing speed, Expertise Index, Requirement Stability Index etc shall be monitored during life cycle phases.

## Measures

- Size
- Effort
- Schedule
- Defects

Point of collection

- Effort - Daily
- Schedule – As per plan
- Defects – After Review

# Management/Development/Testing Tools



- Configuration Management Tools
  - MS Visual Source Safe
  - TFS
  - Sub Version
- Requirements
  - Rational Rose
  - Balsmaiq
- Design
  - MS Word
  - Rational Rose
  - Balsamic
  - PhotoShop
- Project Management
  - JIRA
  - Microsoft project
- Coding and Unit Testing
  - FxCop
  - Nunit
  - Ncover
  - Clang for iOS
  - ANTS
  - CPPUnit
- Testing
  - TestLink
  - QTP
  - Jmeter
  - Load Runner
  - SoapUI
  - Webscarab



## Organization

- Role based
- Process Related

## Testing

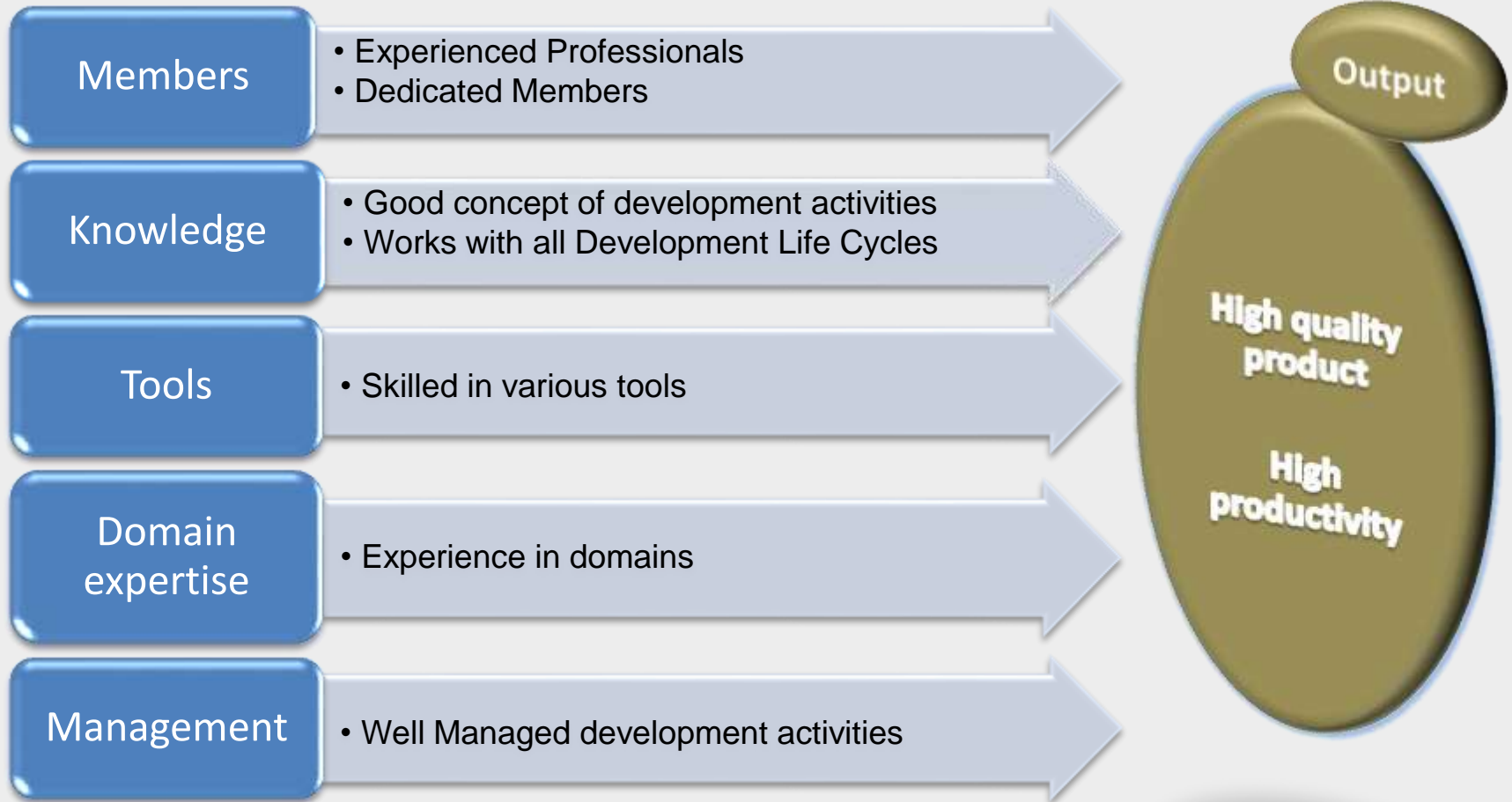
- Automation tools
- Testing Techniques

## Project

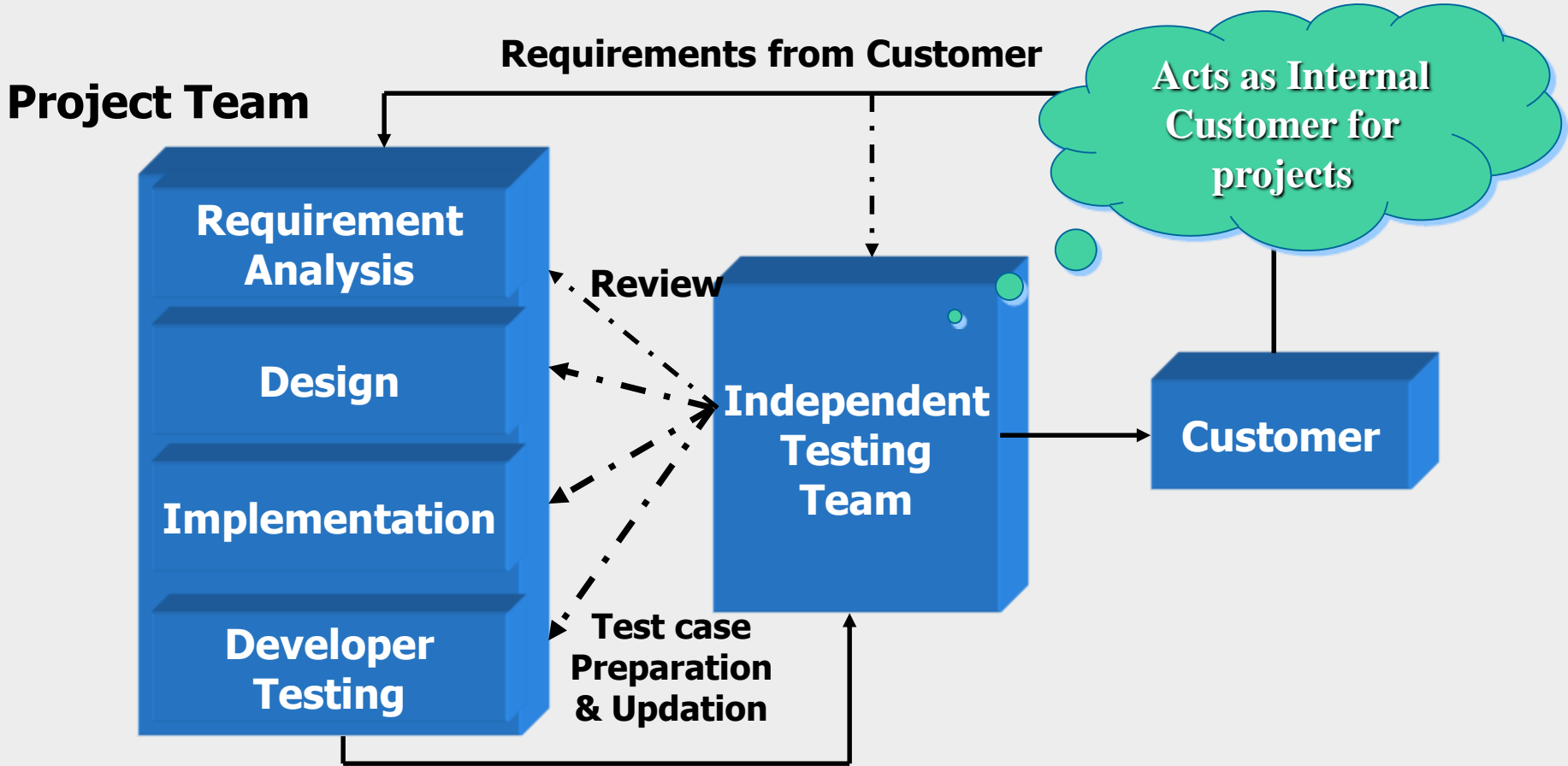
- Domain specific
- Project specific



# Development Team



# Independent Testing Team



# Independent Testing Team



# How to reach Triassic ?

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**THANK YOU!!!**