

Jornada sobre

# Innovación y Tendencias en la Gestión de Requisitos



#gestionrequisitos2016

9 de mayo – Madrid

Sede Madrid Network

organizan:



## Requirements Management - Best practices

XTRONIC

Javier Hernández González

# XTRONIC GmbH

Engineering, consultancy, support and software development

- Specialists for requirements engineering and development of extensions for IBM Rational DOORS®
- Personalized solutions with a high innovation capacity throughout the whole development process
- Experienced and qualified development partner
- Founded in 1999
- Headquarter in Böblingen (Germany)
- 110 employees
- ~ 9,5 million anual turnover



# XTRONIC ESPAÑA

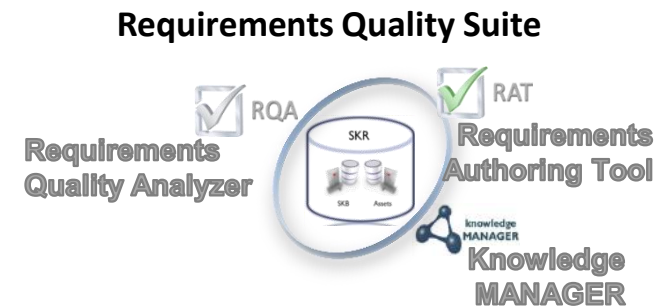
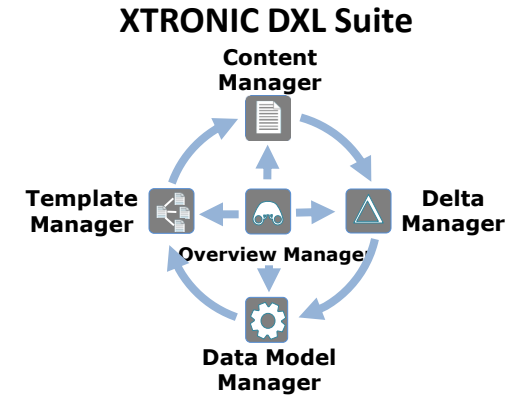
## Requirements Engineering Consultancy

- IBM Rational DOORS®
- DOORS NG®
- Development of efficient RM methodologies
  - Template Management
  - Change Request Management
  - Traceability
  - Changes & Delta Documentation
  - Specifications agreement
  - Requirements versioning
  - Quality Analysis
- Support Services
- Migrations
- Trainings

## IBM Rational Products® Licensing and Consultancy

- Licenses of IBM Products
- Consultancy and support
  - IBM Rational DOORS
  - DOORS NG
  - Rhapsody
  - Rational Team Concert
  - Rational Quality Manager
  - Urban Code
  - Build Forge
  - Funcional Tester
  - Performance Tester
  - Development & Test Environment

## Products



## IBM Rational DOORS® Extensions

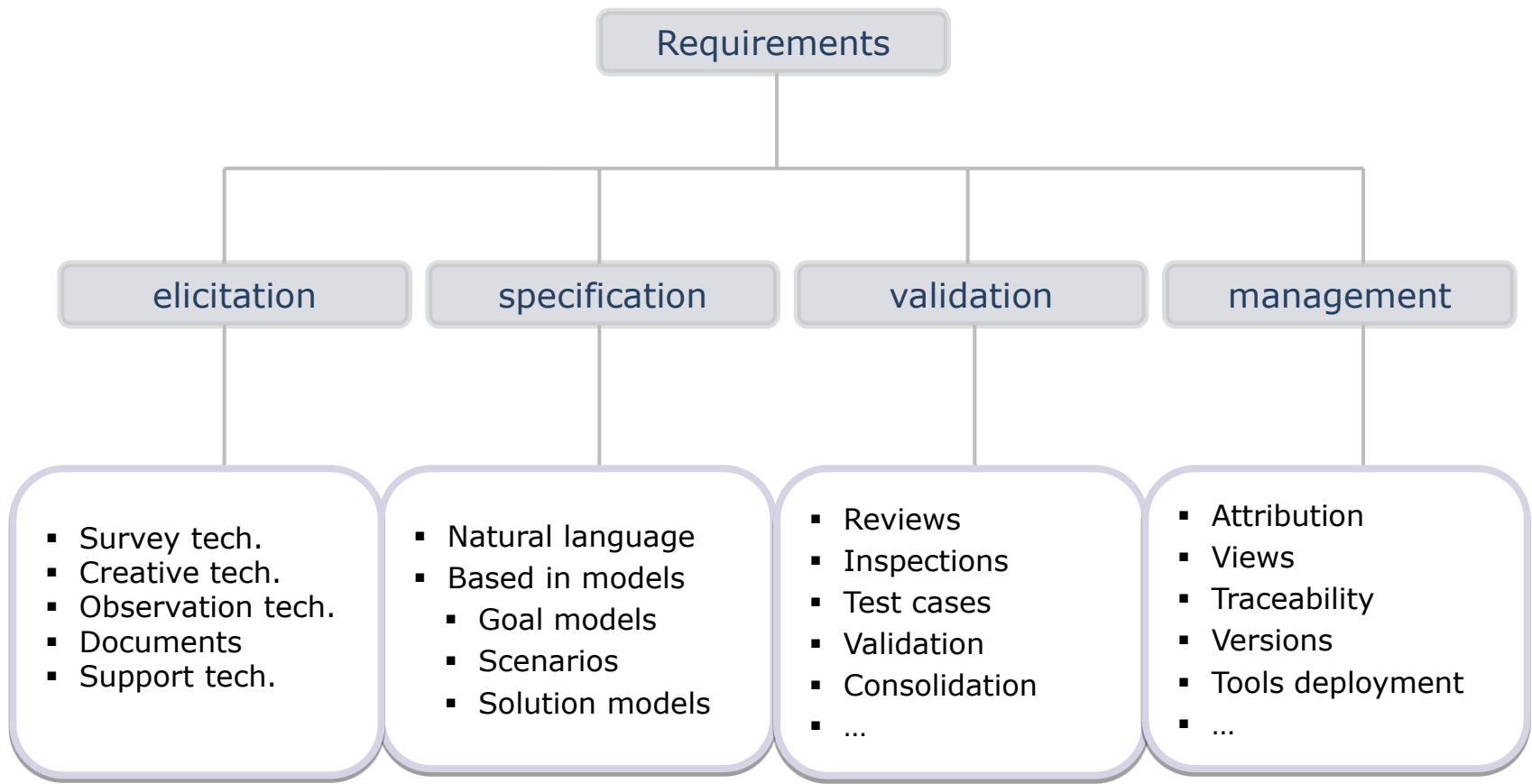


# Requirements Management – Best practices

**The best time to plant a  
tree was 20 years ago.  
The second best time is  
now.**

**~ Chinese Proverb**

# The four main activities of Requirements Engineering



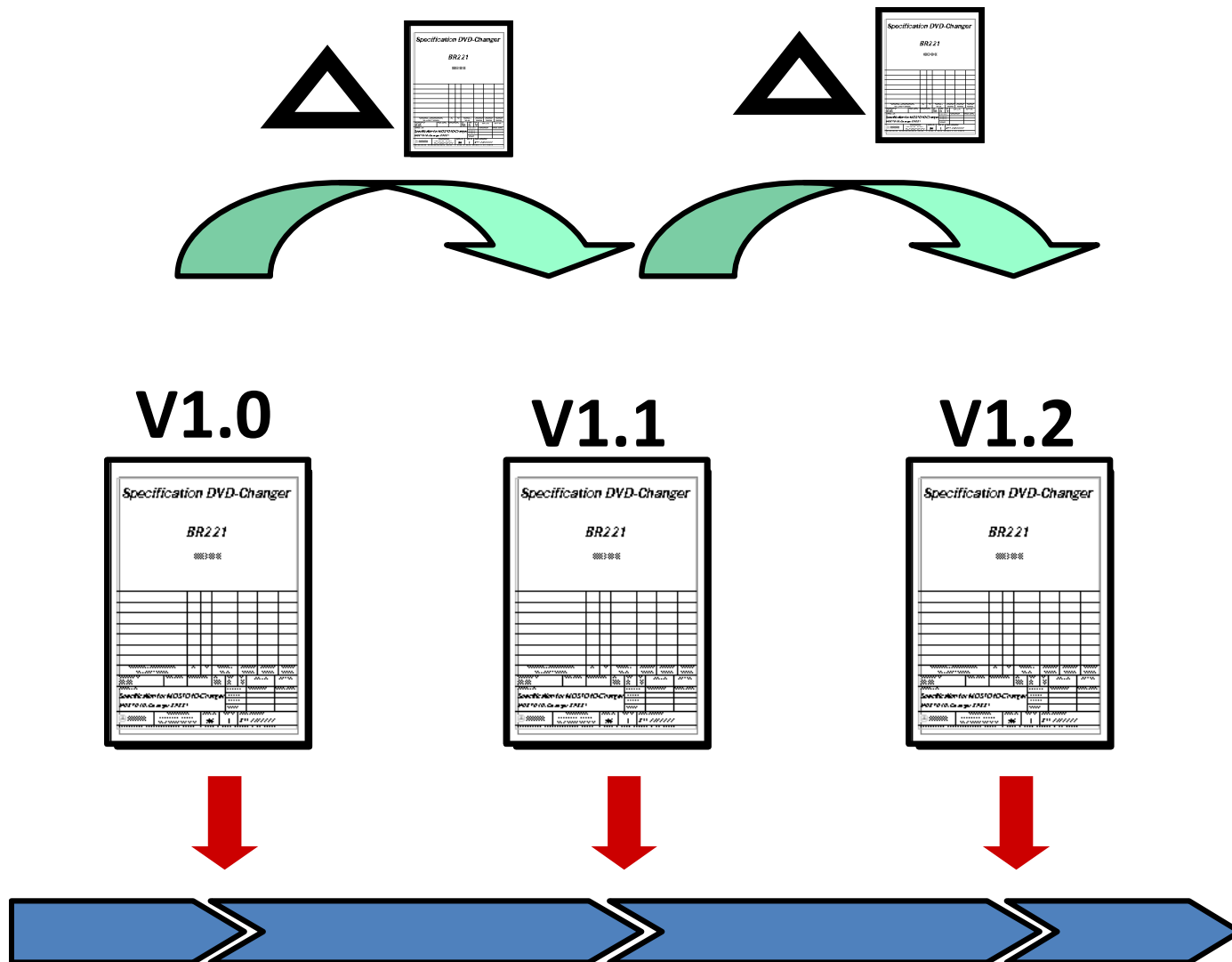
XTRONIC-Academy, Training in Requirements Engineering: The four main activities

# Agenda





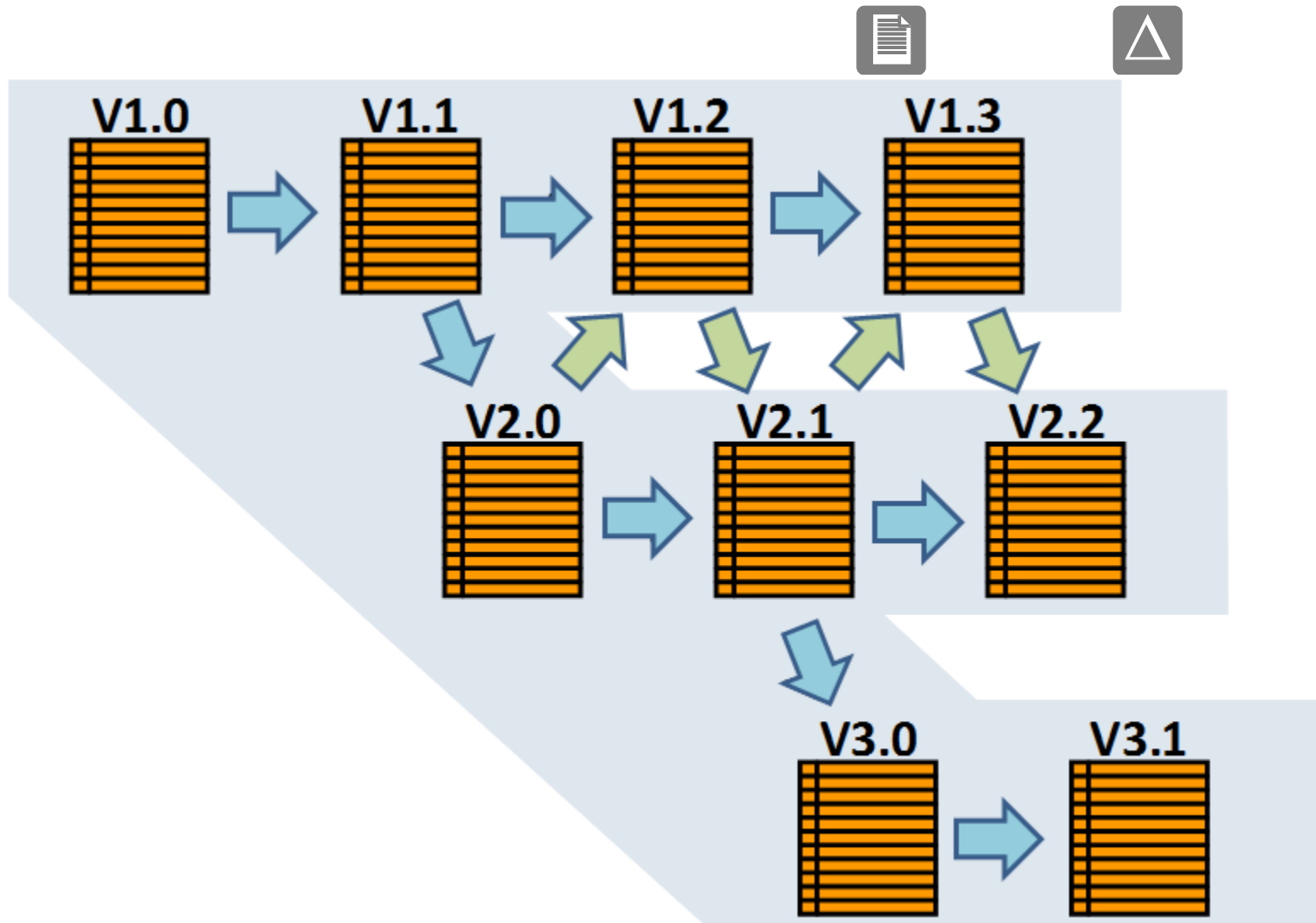
# Versioning and Changes



XTRONIC-Academy, Training in Requirements Engineering: Versioning & Changes



# Branching and Merging



XTRONIC-Academy, Training in Requirements Engineering: Branching & Merging

# Change Management



Banda Aceh, Indonesia, March 26 2004, <http://www.coolgeography.co.uk/>

# Change Management

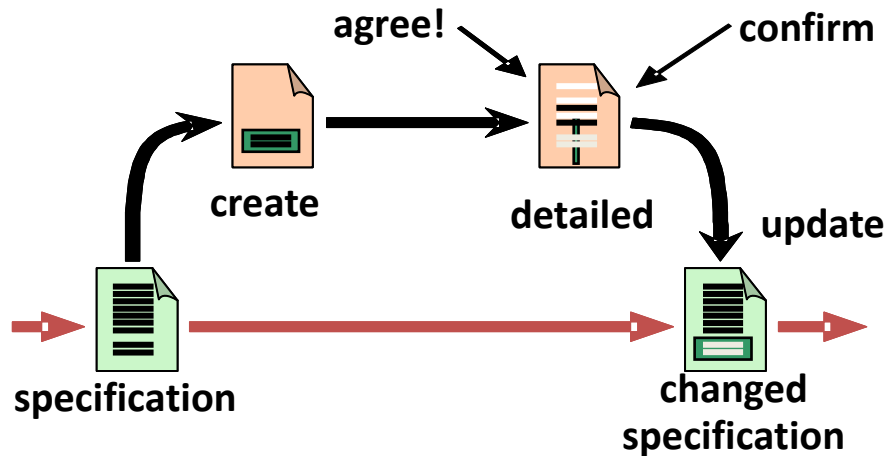


„The Green Wall“, March 22 2015, Japan To Build Sea Walls [gazettereview.com](http://gazettereview.com)

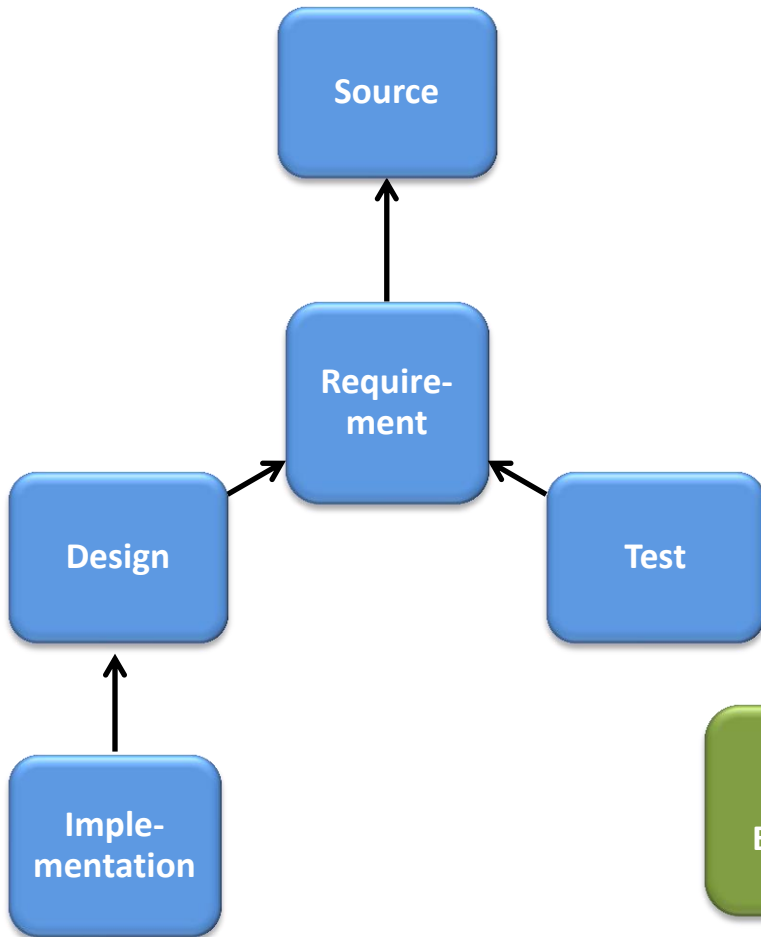
# Change Management



**“What if we don’t change at all ... and something magical just happens.”**



# Traceability

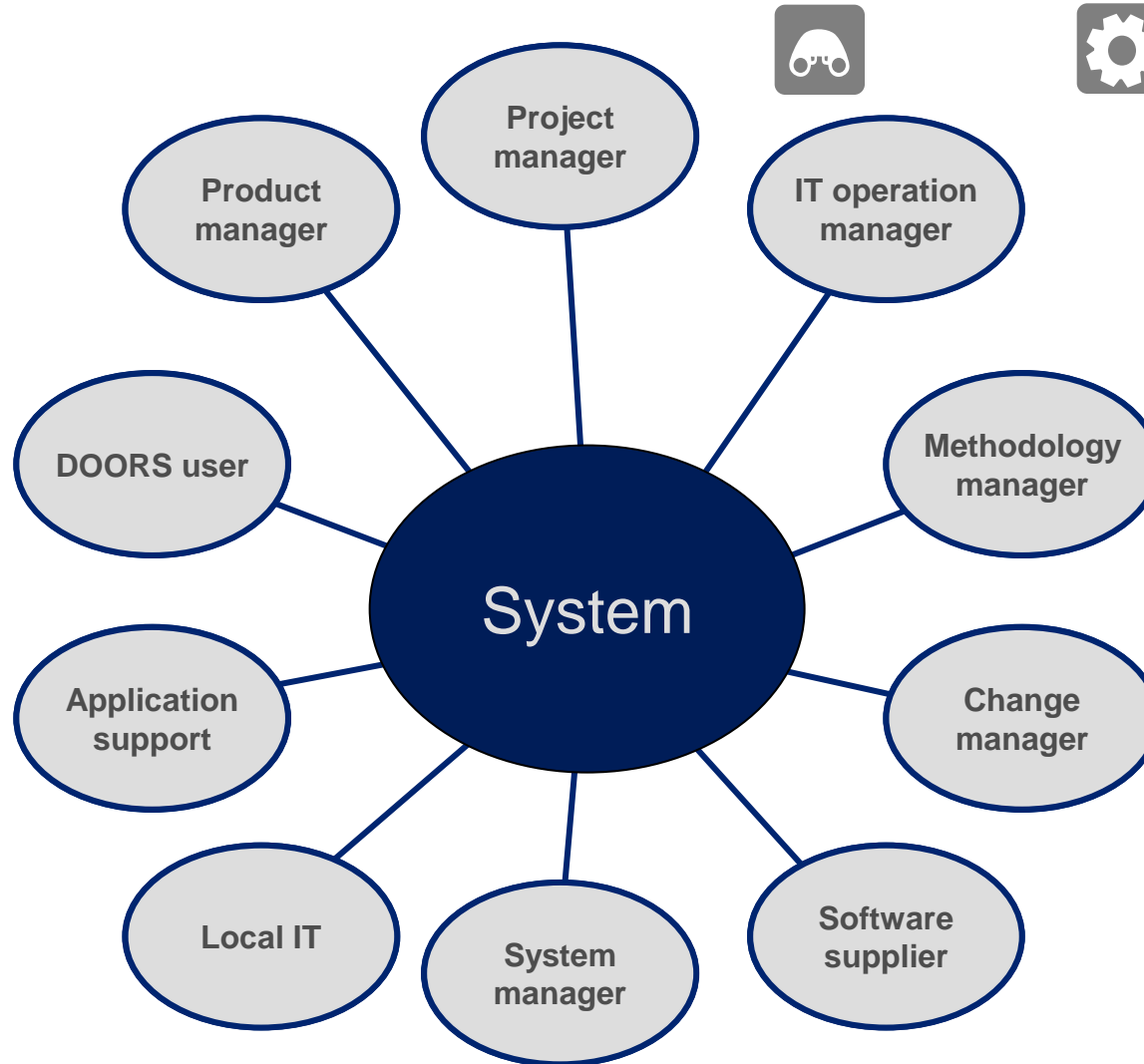


Sahara desert, March 2014

## Some Benefits

- Supports impact analysis in change management
- All requirements are taken into account during design and implementation
- NOK Test points to the problem
- Reuse of requirements
- Compliance with norms and standards

# Role Management

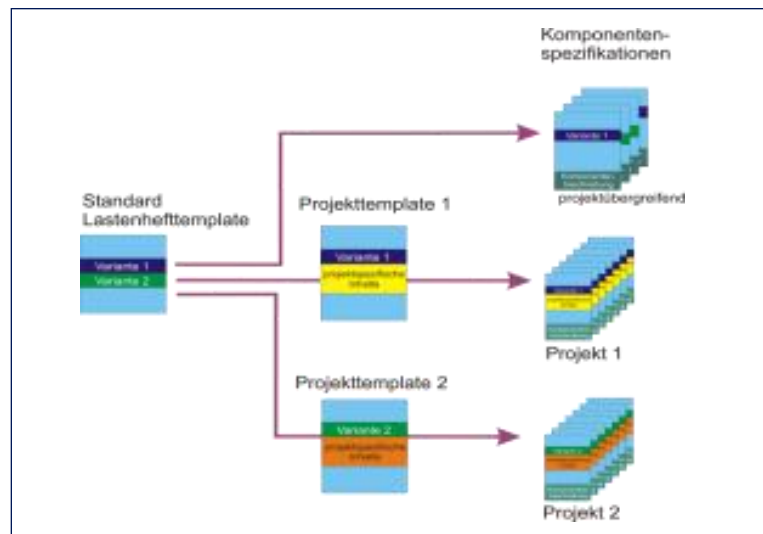


XTRONIC-Academy, Training in Requirements Engineering: Role Management

# Use and Manage Templates

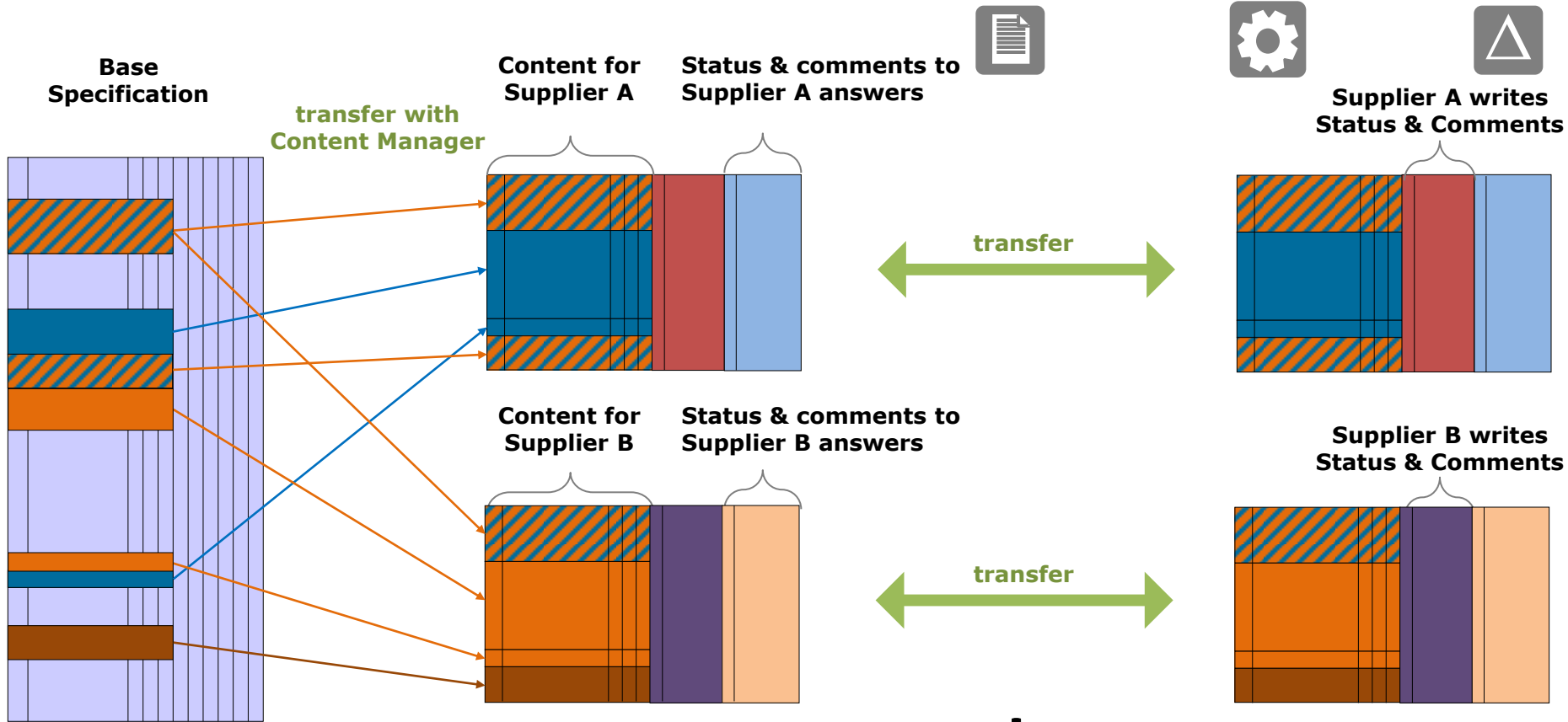


The REUSE Company: Pattern Formalization



XTRONIC-Academy, Training in Requirements Engineering: Template Management

# Specifications Exchange



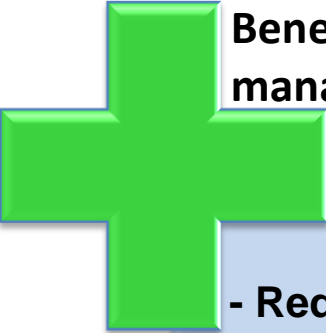
XTRONIC-Academy, Training in Exchanging Process



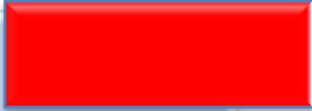


# Conclusion

## Benefits of effective requirements management

- 
- Reduce developing time and rework
  - Efficiency enhancement
  - Improve productivity
  - Be earlier to market
  - Increase quality
  - Ensure collaboration
  - Share information
  - Save costs
  - Guarantee information completeness
  - Keep up-to-date information
  - Take better business decisions
  - Maintain Know-How
  - Client satisfaction
  - Team satisfaction

## Disadvantages of ineffective requirements management

- 
- Detect error at later stages of the project
  - Lack of access to up-to-date and accurate information
  - Hindering communication
  - Hindering collaboration
  - Increment risks
  - Contribute to delays, errors and rework
  - Be late to market
  - Increment costs
  - Increasement of projects fails to deliver the expected value
  - Unsuccessful meeting of customer needs

# Requirements Management – Best practices

“TELL ME AND I FORGET,  
TEACH ME AND I MAY REMEMBER,  
INVOLVE ME AND I LEARN.”

~ BENJAMIN FRANKLIN

Franklin, Benjamin, 1706 – 1709, <https://www.quotesaga.com>

# Requirements Management – Best practices

## Detalles de Contacto



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