# Munich Re
# QualityCenter

2009 March 19th     Alois Strobl

Münchener Rück
Munich Re Group

# Agenda

**Münchener Rück
Munich Re Group**

1. **Each individual Project has his own Testing-Methods, -Tools, -Organisation**
   FS-RI (SAP-Reinsurance Solution -  Start 2002) is the most important project in the Munich Re and has an own Testing-Group

2. **SDE (S**oftware **D**evelopment **E**nvironment**) - Service Test (since 2002)**
   SDE: an administrative department for Methods, IT-Architecture, Testing, Security
   „SDE - Service Test" is responsible for obligatory Testing-Tools, -Guidelines and – Methods
   Testing-Tools: HP QualityCenter, HP QuickTest Pro

3. **„TestCenter IT1.1" for FS-RI (since 2006)**
   2003 - 2006 Test-Management FS-RI supported by SDE
   Testing-Tools : HP QualityCenter, HP QuickTest Pro , HP LoadRunner

4. **2007 / 2008 Merger „TestCenter IT1.1" and „SDE - Service Test"
   to „Service Test-Center"**
   Responsible for all IT-Projects test-activities
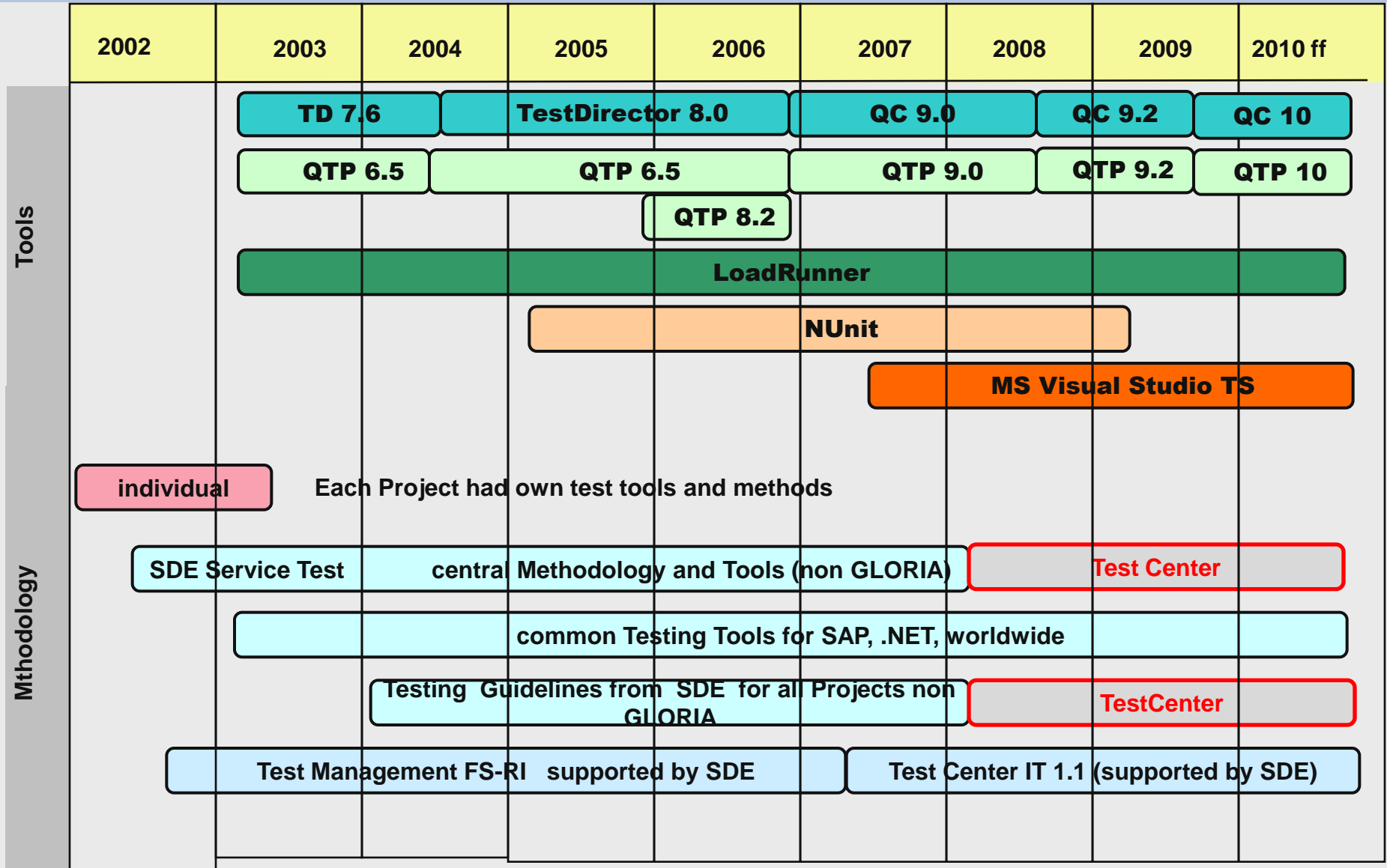   Testing Tools : HP QualityCenter, HP QuickTest Pro , HP LoadRunner

# Testing-Tools

**Since 2003:**

- All projects are working with the same testing tools

- All locations are working with the same testing tools
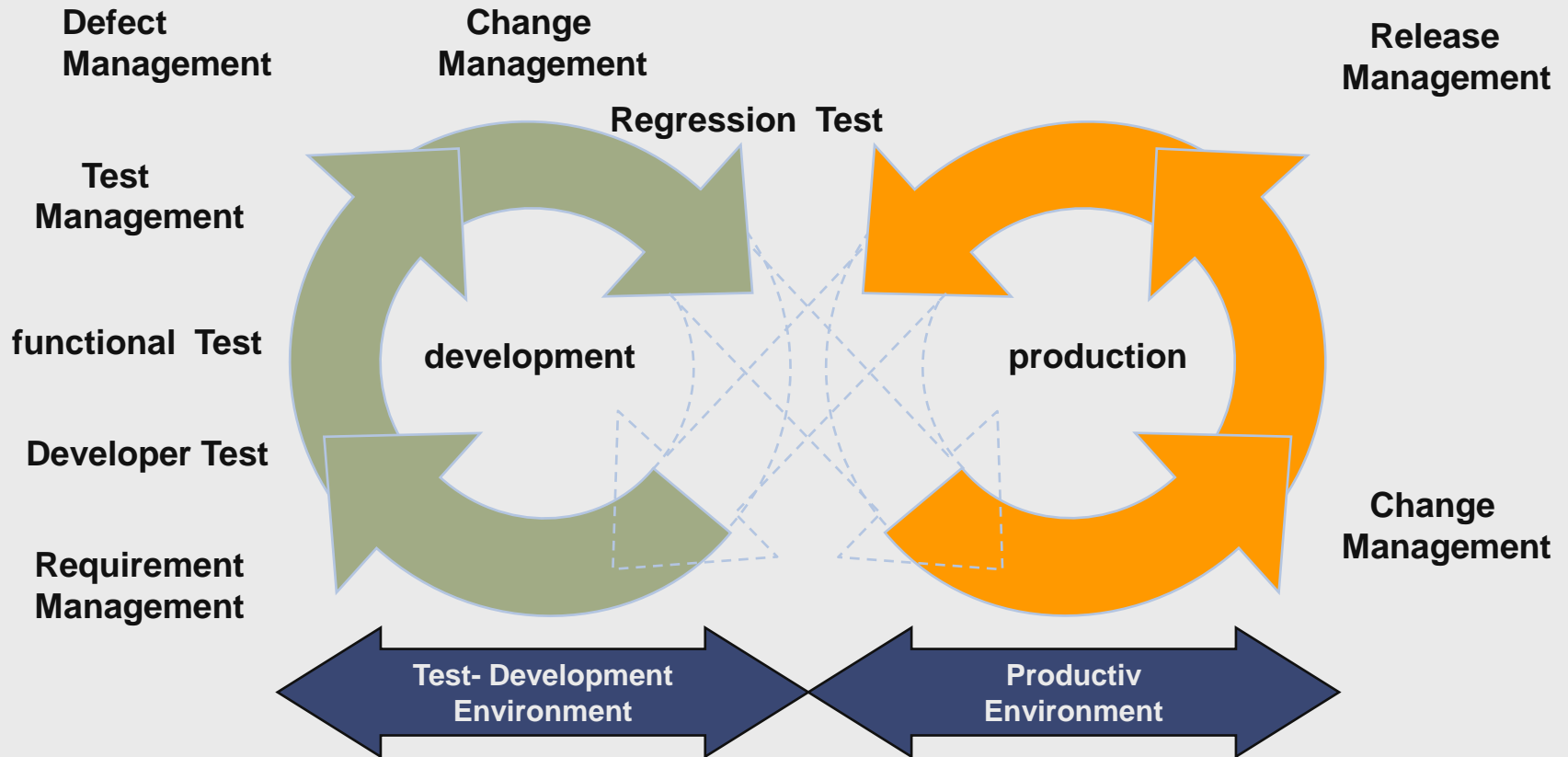
**Tools:**

- HP QualityCenter

- HP QuickTest Pro

- Own written Test Automation Framework (for FS RI)

- HP LoadRunner

- Microsoft Visual Studio TS

- NUnit

# „MRM-Roadmap" Testing-Tools and Methodology

**Münchener Rück**
**Munich Re Group**

| 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 ff |
|------|------|------|------|------|------|------|------|---------|

## Tools

- **TD 7.6** | **TestDirector 8.0** | **QC 9.0** | **QC 9.2** | **QC 10**
- **QTP 6.5** | **QTP 6.5** | **QTP 9.0** | **QTP 9.2** | **QTP 10**
- **QTP 8.2**
- **LoadRunner**
- **NUnit**
- **MS Visual Studio TS**

## Mthodology

- **individual** — Each Project had own test tools and methods
- **SDE Service Test** — central Methodology and Tools (non GLORIA) — **Test Center**
- common Testing Tools for SAP, .NET, worldwide
- Testing Guidelines from SDE for all Projects non GLORIA — **TestCenter**
- Test Management FS-RI supported by SDE | Test Center IT 1.1 (supported by SDE)

5

# QualityCenter Operation I  (Status March 2008)

**Münchener Rück**
**Munich Re Group**

- Hardware                        ESX Server  4 Intel Xeon MP 7140, 64 GB RAM
  QC Application-Server exclusive VM on ESX
  File System  (NetUp Filer) >  500 GB
  Oracle ~100 GB

- Named-User in QC       3,662 (2009 March)

- Active QC Projects       > 170

- Operation                7 x 24h

- Test-Cases and runs    250,000 Test-Cases; 350;000 runs in 2008

- Licenses                 220 concurrent (mostly > 190 active)

- Locations               Munich, USA, UK, Australia …….
  → Intranet worldwide
  Partner-Environment  →  Internet worldwide

# QualityCenter Operation II

1. QC is a business critical application for Munich Re

2. Mandatory for all development projects

3. FS-RI rollout could be impossible without a tool like QC

4. Embedded in the product-life-cycle

5. Our tool for Requirment-, Change-, Test- and Release-Management

# Next planned steps: QualityCenter

1. QC 10 and QTP 10

2. Connection to MS Visual Studio TS

3. One QC-Instance worldwide
   (e.g. Integration of a smaller MRAm QC-Instance)

# Product-Expectations

1. Upward-Compatibility QC-Client and QC-Server
   Migration QC 9.2 to QC 10 has to happen as a worldwide „Big-Bang"

2. Bi-Directional Connection to MS Visual Studio TS
   Defects, Requirements, Work-Items

3. Data-Archiving-Functionality: Out-of-the-Box

4. Redesign Data-Storage in the File-System (less files and folders)

5. More simple cross project reporting (dashboard QC 10 ?)

# Thank you for your Attention !

Strobl Alois