

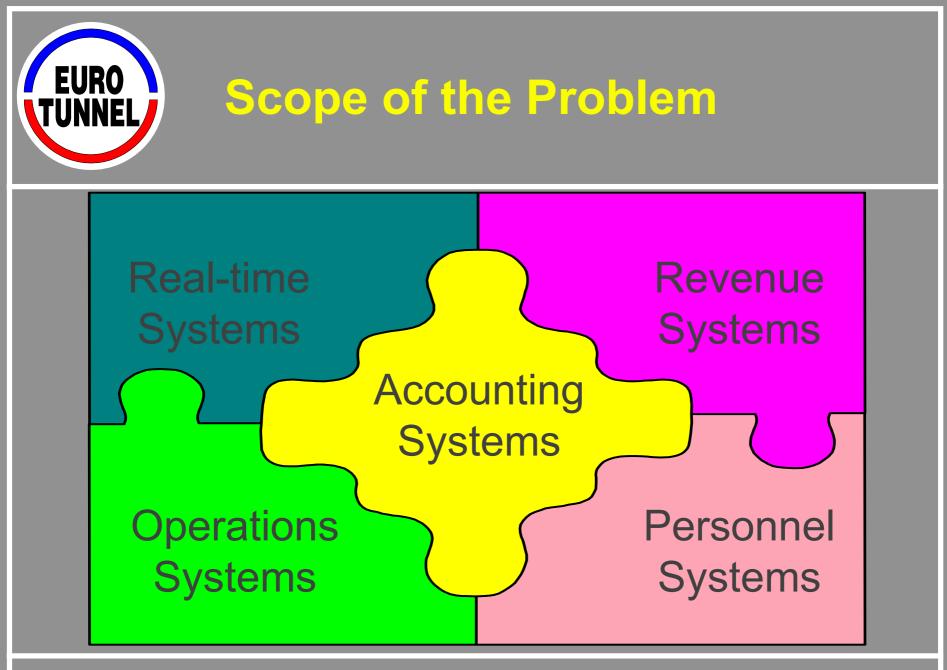
Evolution of a Test Method

Sue German Independent Consultant Andrew K. Johnston

Questa Computing Ltd.

© Andrew Johnston and Sue German 1994

Evolution of a Test Method



© Andrew Johnston and Sue German 1994

Evolution of a Test Method

Eurotunnel's Problems (Which Other People Have Too!)

Even if the system works and has been tested the users may not use it if....
The requirements are not correctly defined

- There are no procedures around the systems
- Training is inadequate
- The business and requirements have moved on



© Andrew Johnston and Sue German 1994

Evolution of a Test Method

Eurotunnel's Specific Testing Problems

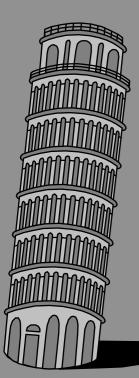
- New business, without established business procedures
- Lack of user time and firm requirements
- Requirement to deliver many systems simultaneously in French and English
- Use of externally supplied "packages", some not very well tested!
- Adoption of 4GL and GUI technology

© Andrew Johnston and Sue German 1994

Evolution of a Test Method



Principles of Good Testing



- Objective is to find errorsBuilding block approach
- ☑ Scaleable test "enough"
- Formal test case design
- ☑ Inspections
- Front loading start early
- ✓ Testware
- Use of tools

© Andrew Johnston and Sue German 1994

Evolution of a Test Method



Testing External and Legacy Systems

- Yes, Eurotunnel has legacy systems too!
- Package systems have good functionality, but maybe poor quality
- Need to verify the supplier's unit and system testing
- Concentrate on whether the system will support the business
- Don't assume anything!



Involving the Users

A key to success is getting the users involved throughout the system life-cycle, particularly in:

- Testing (early in the life-cycle)
- User acceptance
 Simulating a real working day



© Andrew Johnston and Sue German 1994

Evolution of a Test Method

What is a FOT (Full Operational Test)?

A FOT is an opportunity, in a simulated real environment, to discover:

- What has been done well so far
- The gaps and problems which still exist
- What needs to be done *before* going live
- It is not a test of any individual's understanding, or a pilot run

Evolution of a Test Method

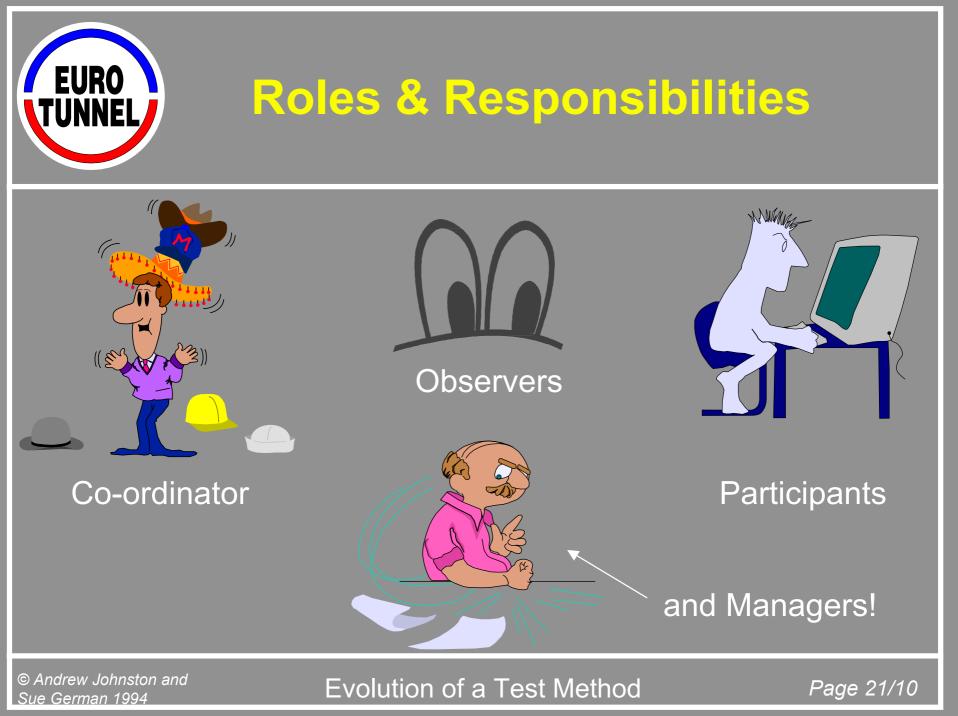


What is the Scope of a FOT?

Eurotunnel had FOTs for:

- Single applications in one department
- A "chain" of integrated systems and business processes in several locations
- New business processes (some without systems)

The technique could also be used following changes to the systems or the business





Planning the FOT

Before the FOT, you have to:

- Decide the scope and scenarios
- Prepare special data if needed
- Identify expected results in detail
- Obtain physical resources
- Organise backup and contingency plans
- Ensure everyone else is prepared



Agenda for the FOT

	Thurs am	Last minute panic! Collect attendance data from all depts.
	Thurs pm	Month end processing Transfer data to payroll Test month end procedures
	Friday am	Start payroll processing Check shift allowances Check joiners, leavers & movers data
	Friday pm	Add late attendance data Complete payroll preparation Transfer to payroll processing

© Andrew Johnston and Sue German 1994

Evolution of a Test Method



Documenting the Results

- 1. What forms and procedures do we need to make sure the right data is passed across each month?
- 2. How should changes in payroll rules be communicated between UK and France?
- 3. Screen EV: totals incorrect....

© Andrew Johnston and Sue German 1994

Evolution of a Test Method



What Happens Post-FOT?

- A *senior* person (usually an observer) is nominated to analyse the results
- Analysis is divided into management, training, policy & system issues
- Individuals are assigned corrective actions and target dates
- Progress is tracked by senior managers
- Repeat the FOT as necessary!

© Andrew Johnston and Sue German 1994

Evolution of a Test Method



What Are the Benefits?

- Gets the users involved in a more realistic way than traditional acceptance testing
- Provides a non-threatening environment where mistakes can be learnt from
- Helps build teams across departments
- Integrates system and user testing with reviews of non-system issues
- Makes senior management more aware of the real issues

Evolution of a Test Method