

# Requirements Traceability

Ben Pronk

[ben.pronk@philips.com](mailto:ben.pronk@philips.com)

tel: 64123

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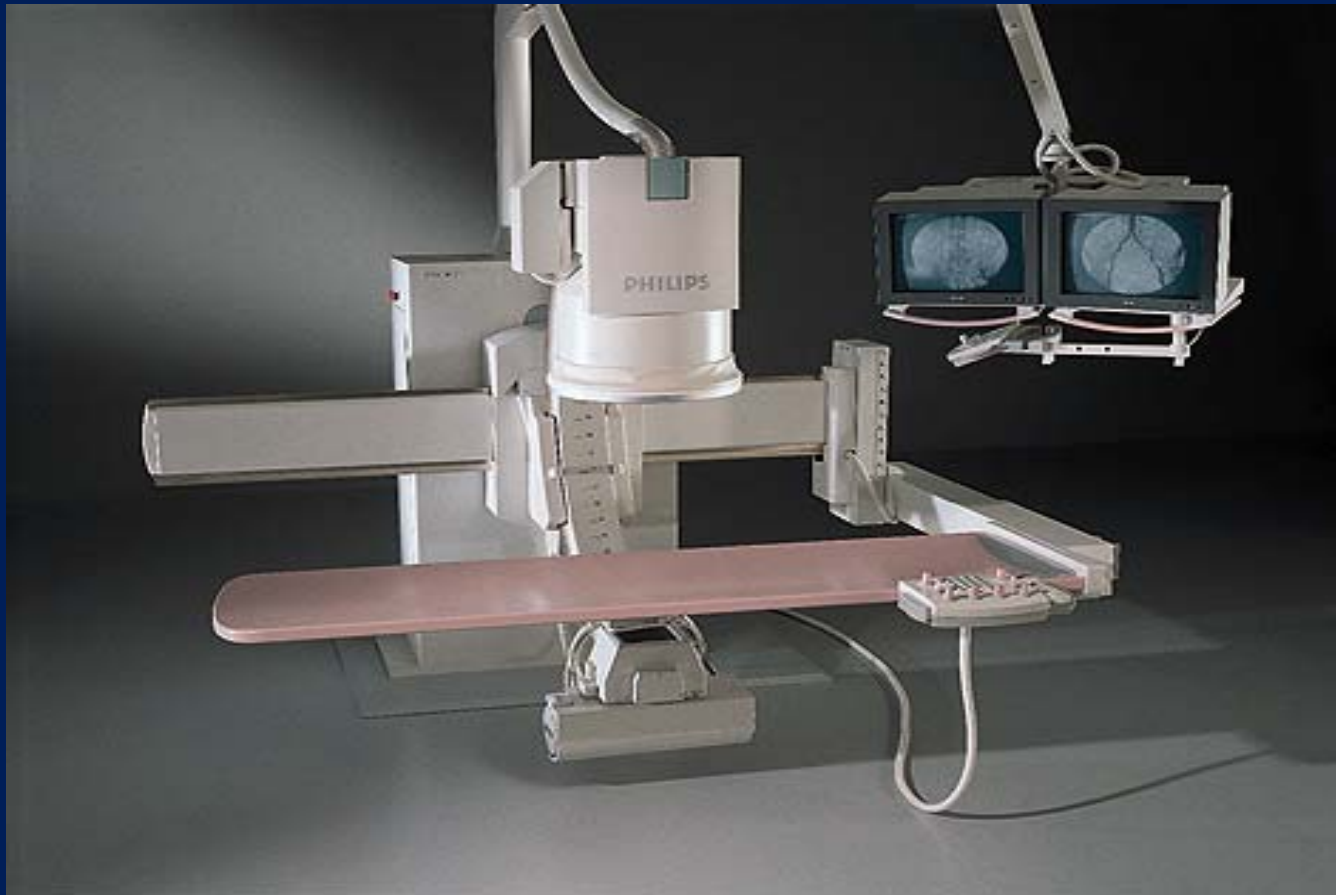
# Contents

- X-ray systems and traceability
- Approach
- Results and costs

# X-ray systems and traceability

- The F-project
  - Platform architecture
  - OO-methodology
  - Windows-NT, C++, COM
  - Formal Requirements Traceability

# X-ray systems and traceability



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# X-ray systems and traceability

- Requirements traceability why
  - FDA
  - Safety
  - The normal stuff

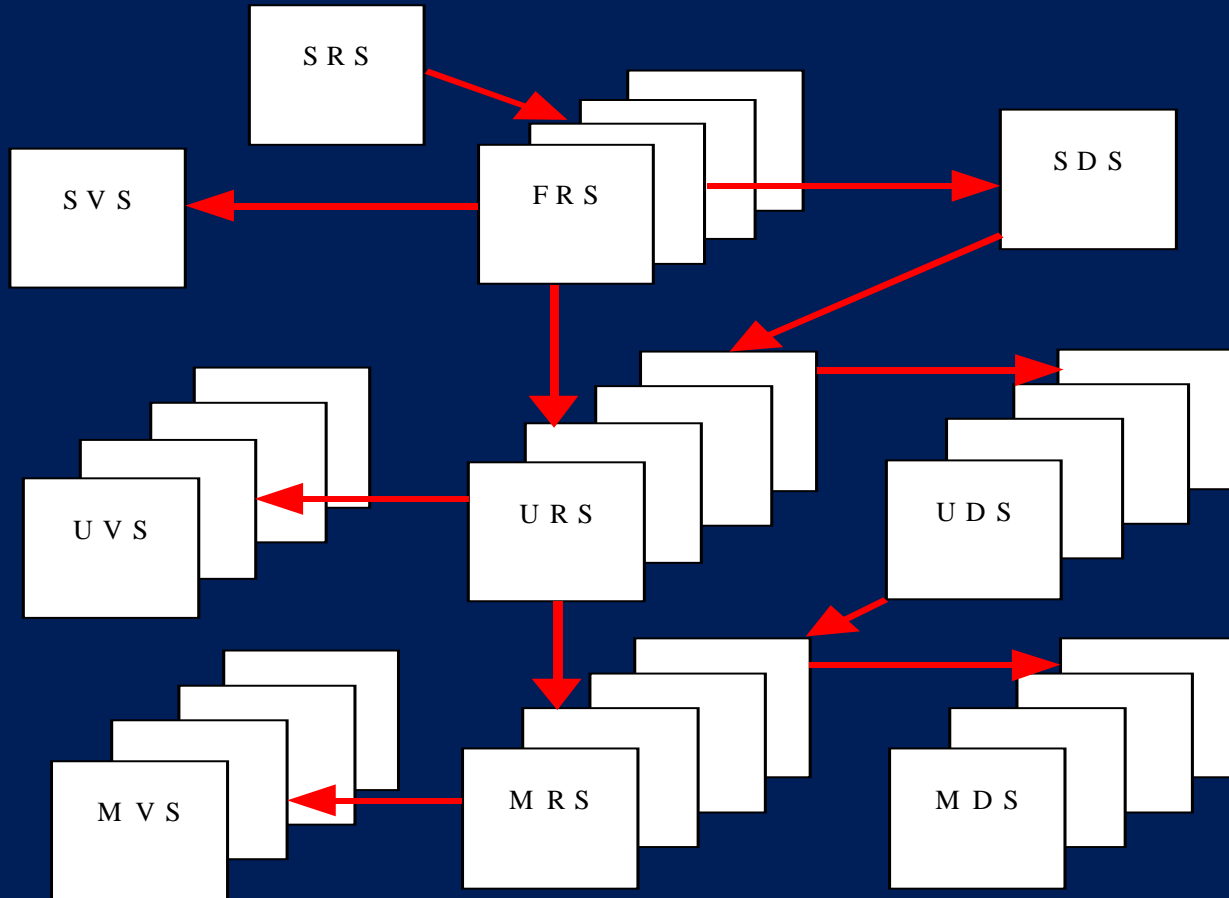
# X-ray systems and traceability

- Safety
  - Mechanical
  - X-ray protection
  - Data corruption

# Approach

- Documentation
  - System
  - Unit
  - Module
  - Code

# Approach



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# Approach

- Goal
  - Focuss on safety related requirements only
  - Tracing down “are all requirements implemented”
  - Verification of requirements

# Approach

- Method
  - Manual tagging of requirements
  - Allocation table to indicate link to lower level
  - Traceability table for relation to higher level
  - Verification table to identify link with test

# Results

- Numer of requirements
  - About 800 safety related
  - Total > 10.000
  - SRS/SDS 7/page
  - URS/FRS/MRS 2/page

# Results

- Work
  - tagging 10/hour
  - allocation table 10/h
  - traceability table 10/h
  - For safety 0.5 manyear