

"SME Supply Chain Integration for Enhanced Fully Customisable Medical Implants, using New Biomaterials and Rapid Manufacturing Technologies, to Enhance the Quality of Life for EU Citizens"

Integrated Project for SME's, coordinated by



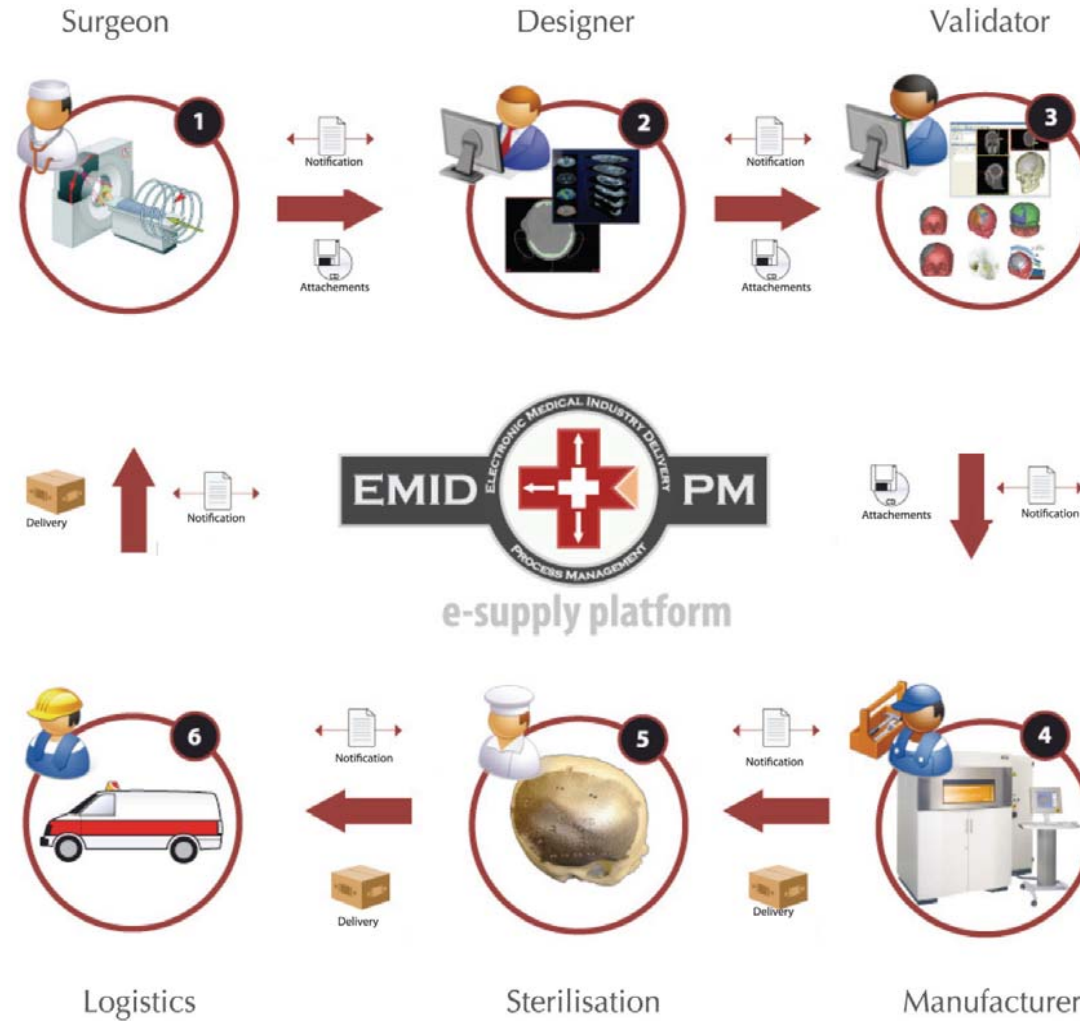
E-Supply Chain for Customized Medical Implants

Coordinated by



Final Public Event
Cerdanyola del Vallès
21st of January 201

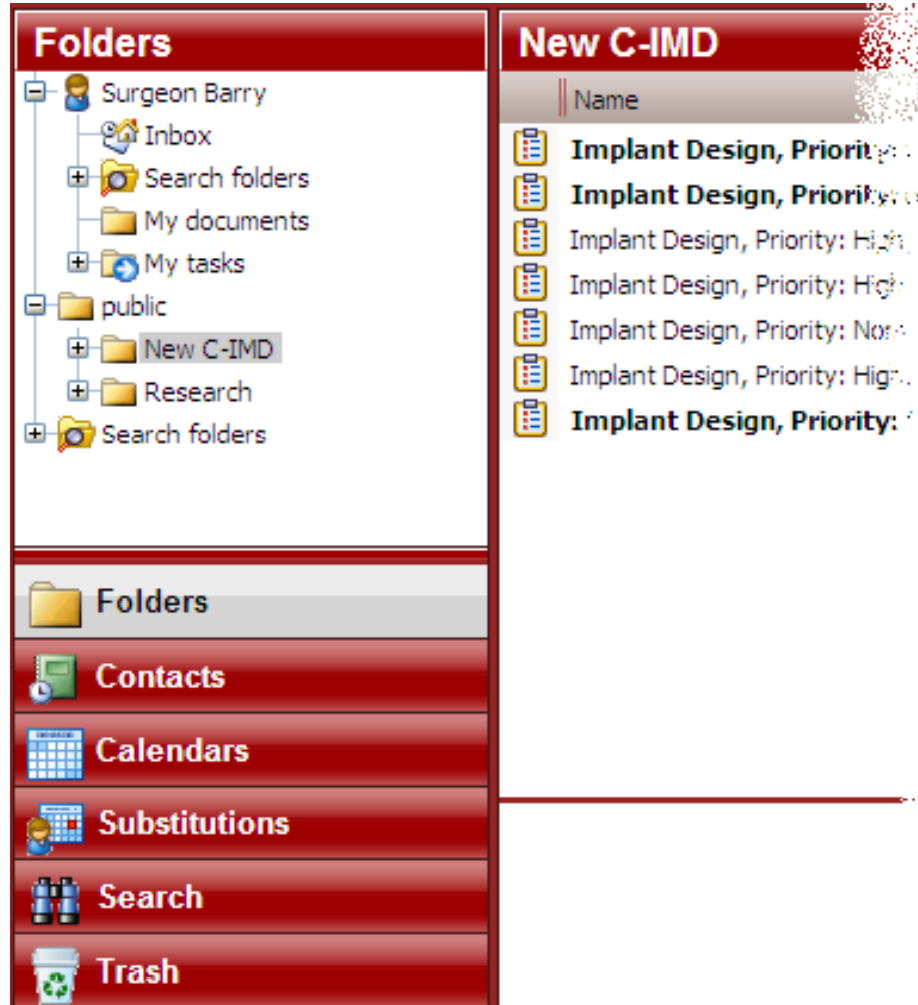
E-Supply Chain



E-Supply Chain



E-Supply Chain



Folders with tree view
Arrange and manage issues,
documents and tasks.

E-Supply Chain

Open Issue.
Complete patient's data.

Complete all fields (Designer, priority, patient's data, comments), attach DICOM file and click "Next" button.
The issue of implant production and delivery will be created on the basis of provided data.

Surgeon: Surgeon Barry

Designer: Designer Barry

Priority: Normal

Patient's Data:

Patient's ID:

Sex: Male

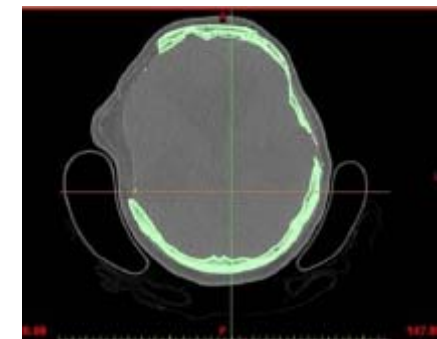
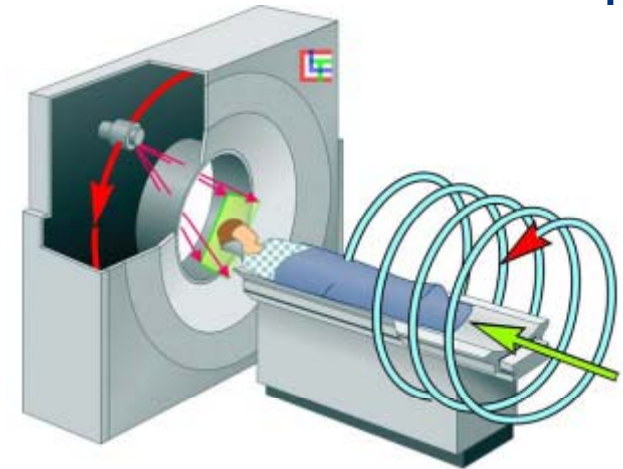
Height: 167

Weight: 67

Comments from Surgeon:

comments - text

Upload DICOM file:



Source: AZM

E-Supply Chain

Open Issue.
Complete patient's data.

Complete all fields (Designer; priority; patient's data; comments); attach DICOM file and click "Next" button.
The issue of implant production and delivery will be created on the basis of provided data.

Surgeon: Surgeon Barry

Designer: Designer Barry

Priority: Normal

Patient's Data: Patient's ID:

Sex: Male

Height: 167

Weight: 67

upload DICOM file: | Przegl

Comment

Open Issue
Complete data of Implant.

Add implant type and implant subtype, then click "Next" button.
You can go back at any time and correct data previously entered.

Surgeon: Surgeon Barry

Designer: Designer Barry

Priority: Normal

Open Issue.
Selected Data.

Perform the final check:
After clicking the "submit" button, the issue will be created and the task of implant design will be assigned.

Surgeon: Surgeon Barry

Designer: Designer Barry

Priority: Normal

Comments from Surgeon:

Comments - text

Details

different type

Back Submit

Issue is completed.

Issue started: 27-02-2009, 14:46:29

Issue duration: 0 days, 0:0:5 hours.

Next step: To be approved by Designer.

To be executed by: Designer Barry

Duration: 30 minutes

E-Supply Chain

Patient's Data:
Sex: Male
Height: 167
Weight: 67,0

Issue Data:
Surgeon: Surgeon Barry
Priority: Normal

Selected Implants:

Type	Details
Implant Type 1	different type

Comments from Surgeon:
Surgeon Barry wrote:
Not Found

[Download DICOM](#)

Comments from Designer to Biomechanical Validator:
comments - txt

Biomechanical Validator:
Validator Barry Alert

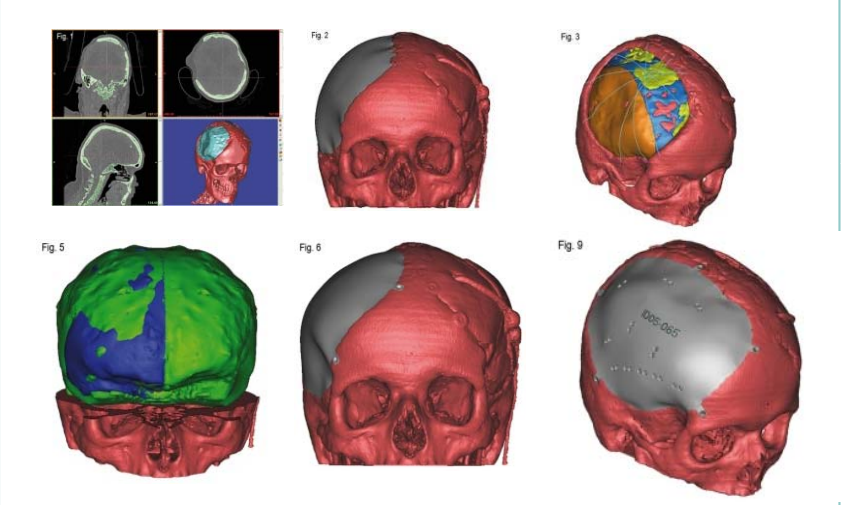
Material Supplier:
Supplier Barry Alert

Manufacturer:
Manufacturer Barry Alert

Cancel Accept

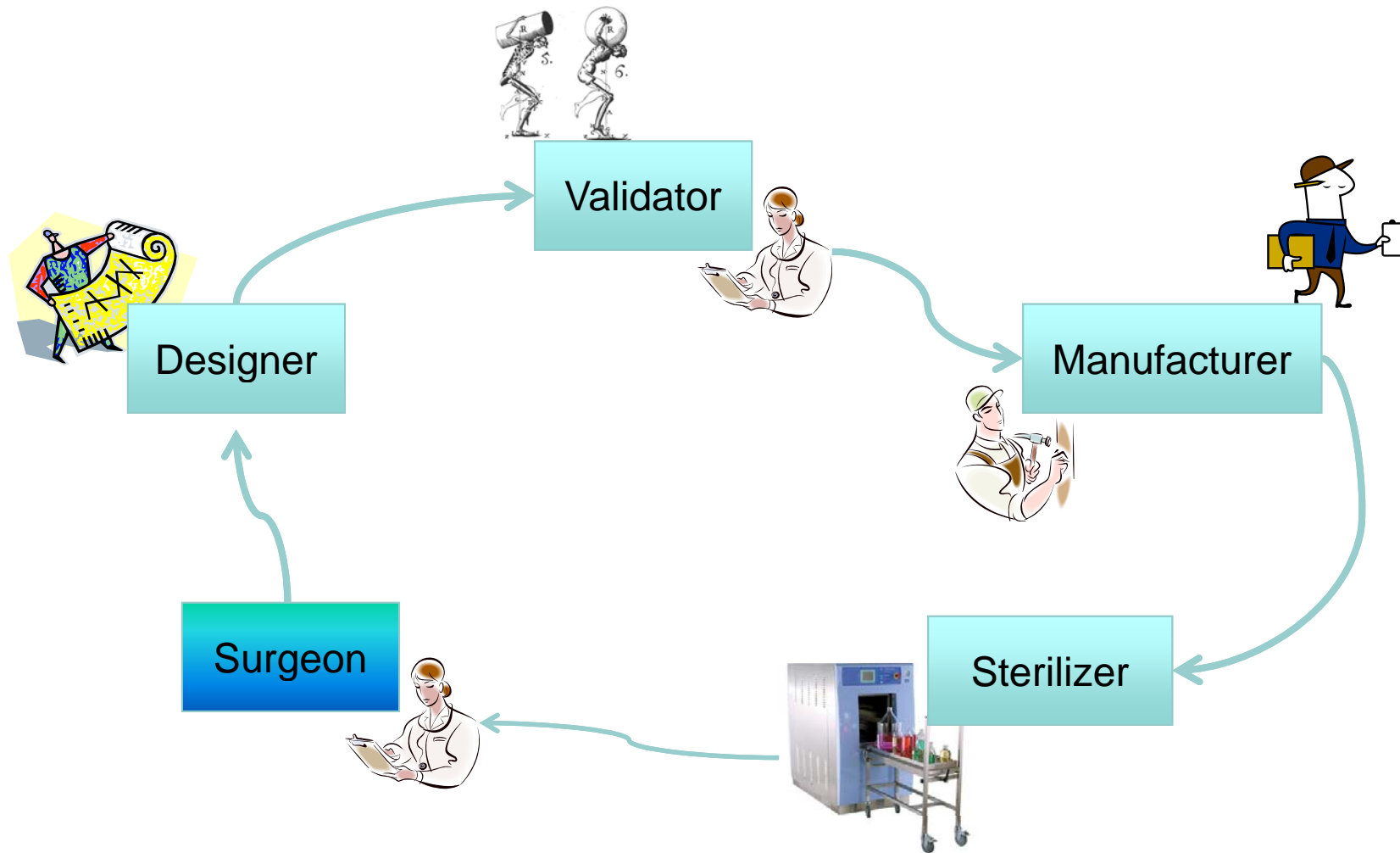
Design has been completed!
Messages has been sent.

Issue started: 27-02-2009, 03:23:48
Issue duration: 0 days, 0:8:42 hours.
Next step: Biomechanical Validator Approval
To be executet by: Validator Barry
Duration: 3 hours



Source: Materialise

E-Supply Chain



Main Features

E-Supply Chain

Collaborative Online
Design Platform

Intelligent assessment
and control

Data Protection and
Secured System

Main Features

E-Supply Chain

Collaborative Online Design Platform

Intelligent assessment and control

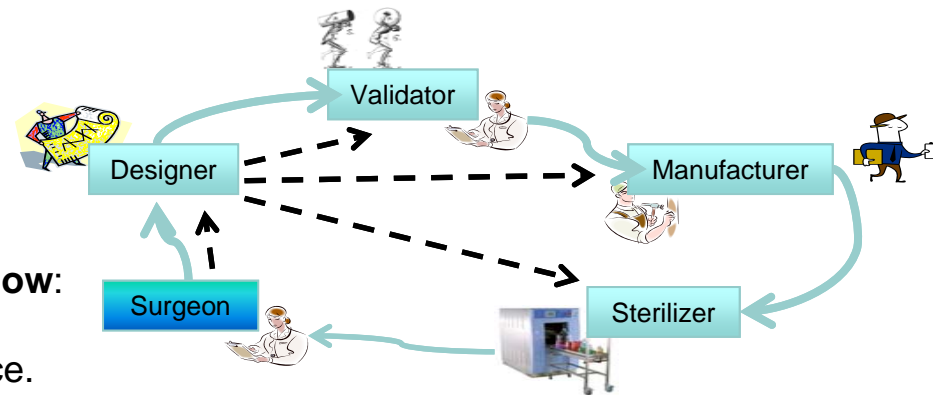
Data Protection and Secured System

Proposes actors:

- To grant the 48 hours time constraint.
- Considering the previous actor interactions.

Controls the time elapsed for the current workflow:

- To grant the 48 hours time limit.
- Prevent bottle necks before their appearance.



Artificial Intelligence

CBR: Case-Based Reasoning

Problem solving methodology based on previous experiences.



Main Features

E-Supply Chain

Collaborative Online Design Platform

Intelligent assessment and control

Data Protection and Secured System

EMID.PM platform is secured against the most frequent attacks

- ✓ *Man-in-the-middle attack*
- ✓ *The Cross-Site Scripting*
- ✓ *Password cracking*
- ✓ *Cross-site request forgery*
- ✓ *Session hijacking*
- ✓ *SQL injection*

HTTPS / SSL cryptographic protocols
ORM abstraction layer
Random session keys, data encryption
Login attempts control



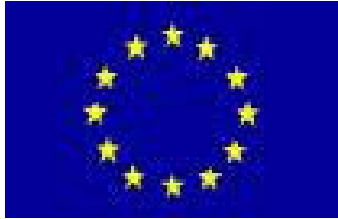
EMID.PM complies Art 8(3) Directive 95/46/EC about the processing of personal sensitive data

Data dissociation of sensitive data

Anonymization of DICOM files

UDIAT
Centre Diagnòstic





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Thanks for your attention!

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