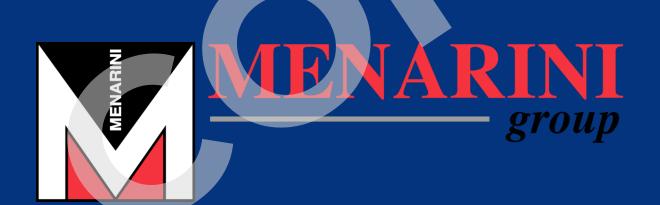


# DIGITAL VALIDATION: Validation and Qualification process

Francesca Merlini

Global CSV Manager Menarini







#### FRANCESCA MERLINI Global CSV Manager Menarini

Francesca Merlini, Information Engineer, in Menarini since 2007.

As part of the Menarini Global Quality Direction, she is the Responsible for Computer System Validation and Data Integrity.

She coordinates a team of 5 members for the management of the Validation of Global Computerized Systems.





Founded in 1886, Today is present in 140 countries (with plants,

commercial and distribution affiliates)













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# **Evolution of Validation/Qualification** process in Menarini



#### Until 2020:

Validation and Qualification process completely paper based

#### 2021:

CSV documents issued and approved in DMS system;

Test execution still paper based

#### End of 2022:

Equipment Qualification managed fully paperless

#### 2024:

CSV for Global System managed fully paperless

Validation processes not harmonized among different companies of the group.

Test execution paper based

Management of printouts, evidencies, compiled forms.

Ibrid approval workflow for the management and signature of validation documentation

Delocalized archives (global/site level)

Original and scanned copy of signatures

Phisical archive for paper based documentation

Time consuming search for test cases inside single test protocols (i.e. for Audit request)





# Aim of new paperless approach



Harmonize Qualification/Validation process and templates among different sites of the Group

Digitize validation: moving to PAPERLESS validation

Electronic scheduling of periodic reviews and requalifications

3

### **VLMS:** main functionalities



Use of electronic signature for review, approval and execution of documents

Electronic execution of validation and qualification activities

Digital
management of
validation
documents, frm
VPL to VRE

Single Repository for all Global and Site documentation with different access levels

Digital inventory of CS, utilities and Equipment, associated with GxP assessment





# **VLMS: System Implementation**



Initial effort for analysis and discussion of processes

Adating theory to the system functionalitiesa **Taking** advantages and enhancement opportunities





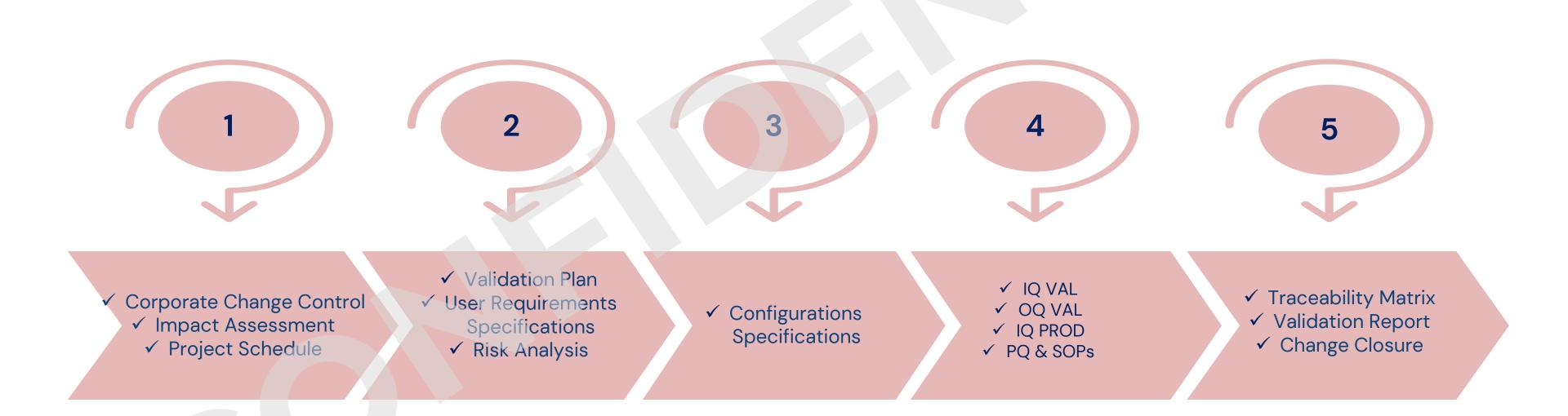
Solution Team (BST)



# VLMS: implementation phases and validation



Be Careful: a VLMS must be validated itself!!



# VLMS: Deploy and roll-out phases







Core system Validation managed at Global level in the DMS system with visibility to all sites

#### **Pilot Deploy**



Site configuration and data import with minimum validation local activities

#### System Roll-out



#### Roll-out validation package:

- Site URS
- Site configuration (folders, roles, users)
- Data import
- PQ execution
- SOPs and WIs
- Training





### VLMS: process and features

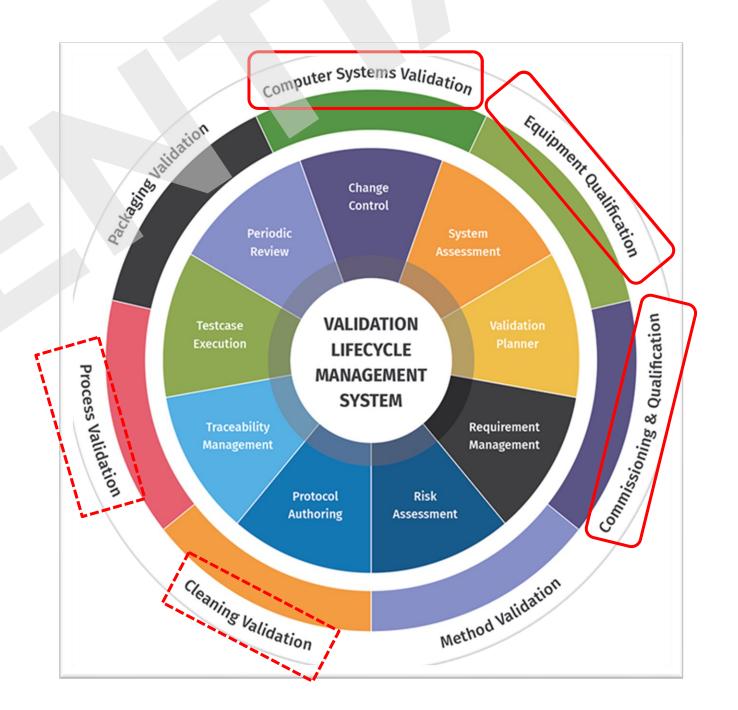


# Currently Menarini has implemented the following **processes**:

- Commissioning & Qualification
- Equipment Qualification
- Computer System Validation
- Computer System Periodic Review

#### With the support of the following **features**:

- Digital System inventory
- System Assessment
- URS Risk Assessment
- Protocol authoring and approval
- Paperless Testcase Execution
- Automatic Scheduling

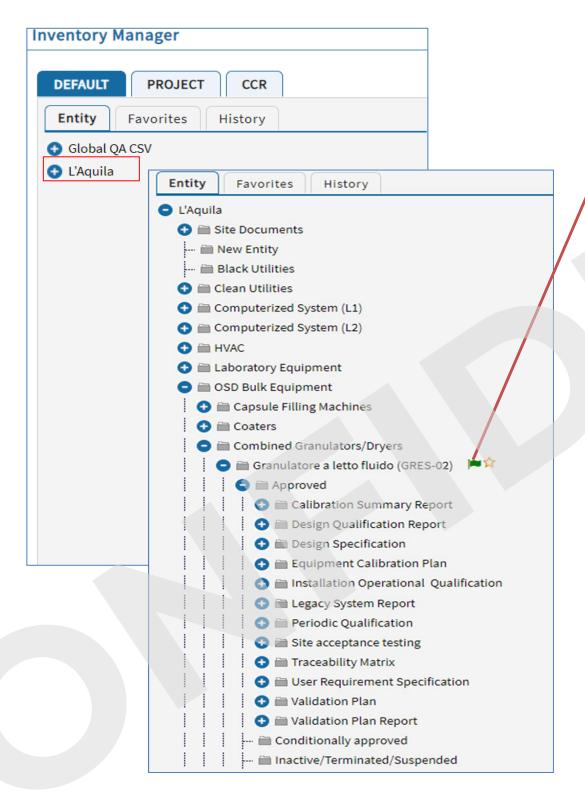


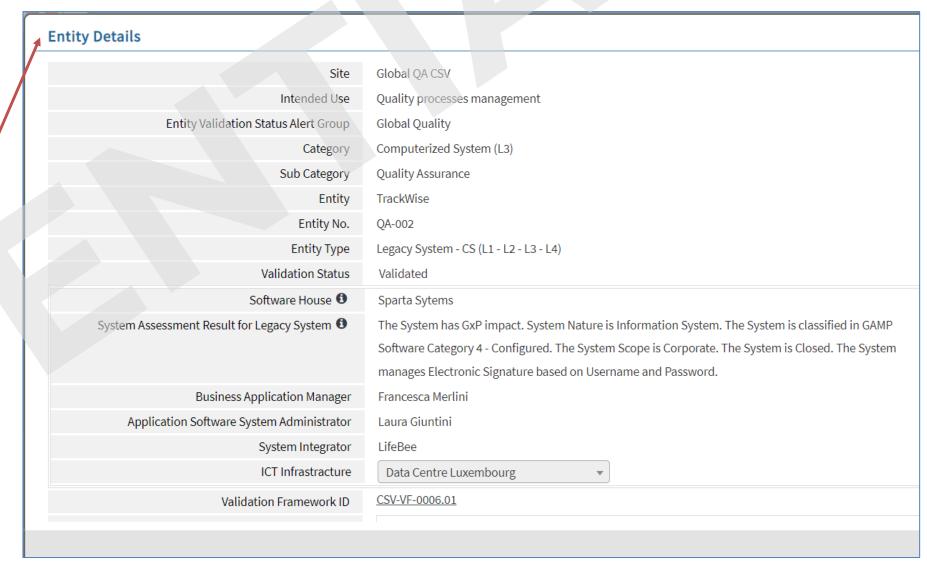
# VLMS: Inventory management



#### Digital Inventory of:

- Equipments
- Utilities
- Computerised Systems







- No more Excel inventory to be maintained
- Possibility of search/queries/export

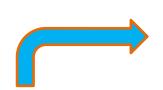


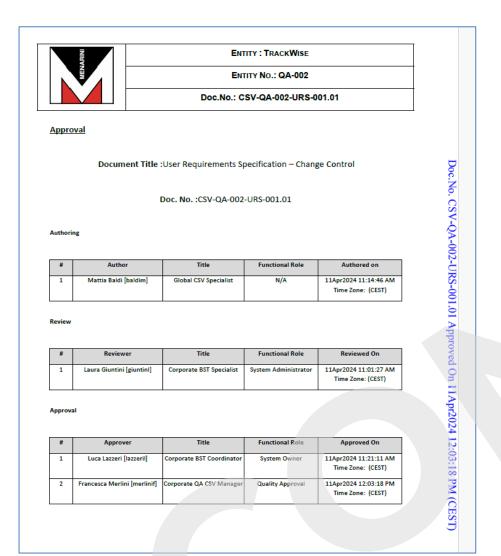


# VLMS: User Requirements management and evaluation



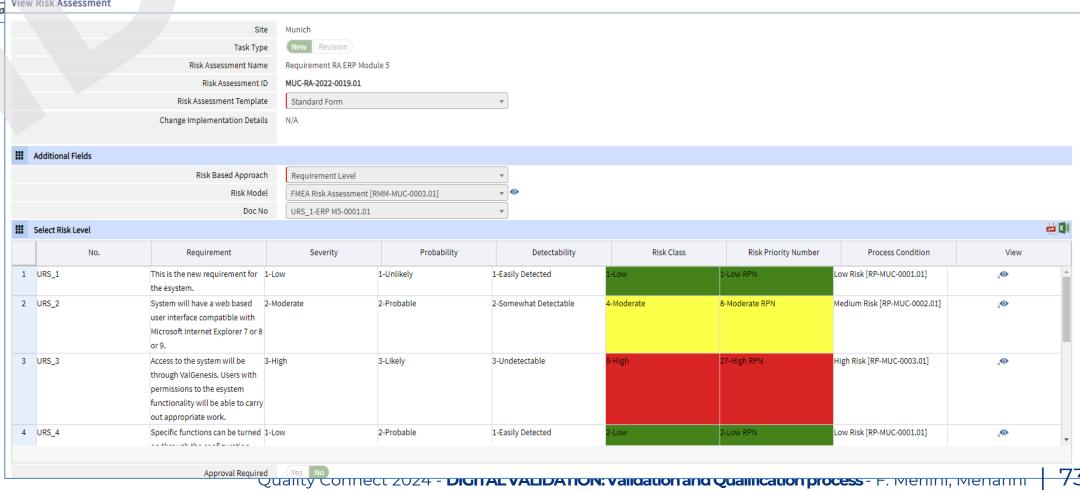
Word-alike issuing of URS with special tags





CODE	REQUIREMENT TITLE	REQUIREMENT DESCRIPTION			
WF.URS.CHC.004	Open a Change Control	Originator, Originator - Approver and QA will be able to create a new Change Control record in <i>Opened</i> status.			
WF.URS.CHC.005	Cancel a Change Control	Originator, Originator - Approver and QA will be able to perform the Cancel activity to change the status from Opened to Closed-Cancelled. An activity summary is required.  In Opened status, Originator, Originator - Approver and QA will be able to perform the Submit activity, in order to move the record to Manager Evaluation status.  In Manager Evaluation status, the person selected as Department Manager (in Opened status) will be able to perform the Request More Info activity, in order to move the record in Opened status. An activity summary is required.  The person selected as Department Manager (in Opened status) will be able to perform the Cancel activity to change the status from Manager Evaluation to Closed-Cancelled. An activity			
WF.URS.CHC.006	Submit a Change Control				
WF.URS.CHC.007	Request More Info				
WF.URS.CHC.008	Cancel a Change Control				
	Department	In Ma View Risk Assessment			

A URS risk analysis is compiled directly in the system with std rules and classification.
The result will indicate how to mitigate the risk.





### VLMS: Test protocol and execution

RS.CMP.027

S.CMP.

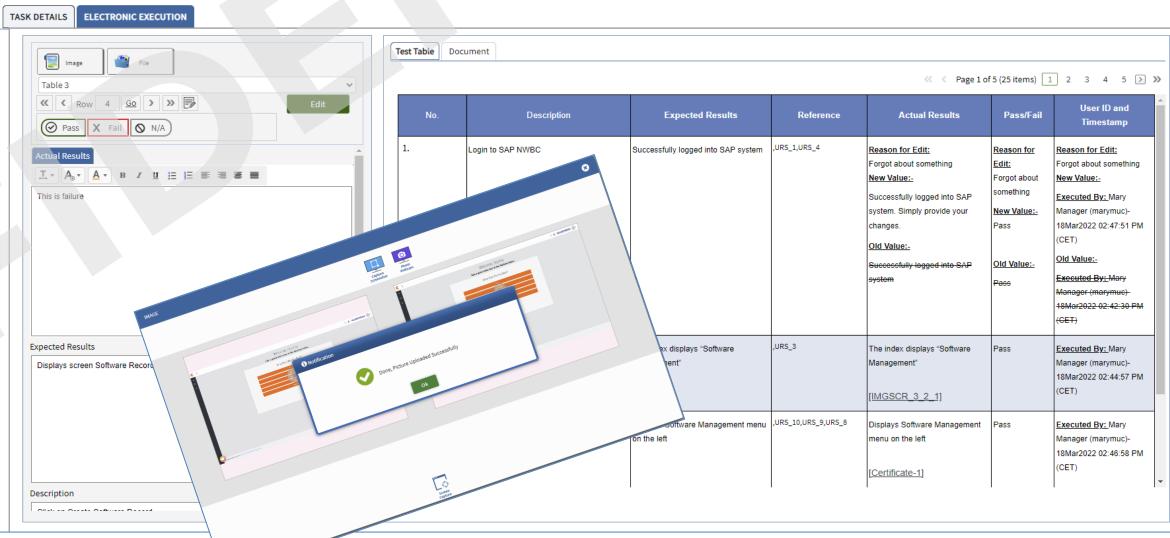


Test Ste p	Test Action	Expected Result	Actual Result Attachments	Pass / Fail	Reference	Signature and date	
1.	Login into TrackWise. In the top of the page click on +Create button and open a new Complaint record. Compile, at least, all the mandatory fields. Click on Save.	The system correctly opens a new Complaint empty form.  A new Complaint record is correctly created.  The record is in <i>Opened</i> status.			GE.URS.CMP.001,G E.URS.CMP.002,GE. URS.CMP.003,WF.U RS.CMP.004,GC.UR S.CMP.027,PR.URS. CMP.030,UP LIES C MP.036,NC TASK DE		
2.	Open the Complaint record in Opened status.  Select the "Submit" activity.	The system requires an electronic Signature to save. The record is correctly moved in			O.URS.CMP. URS.CMP.05	Table 3  ( Row 4 Go ) >>>	

Investigation Definition status

Step by step description of test cases with special references to URS (huge work!)

Test execution done directly in the system with automatic timestamp registration.



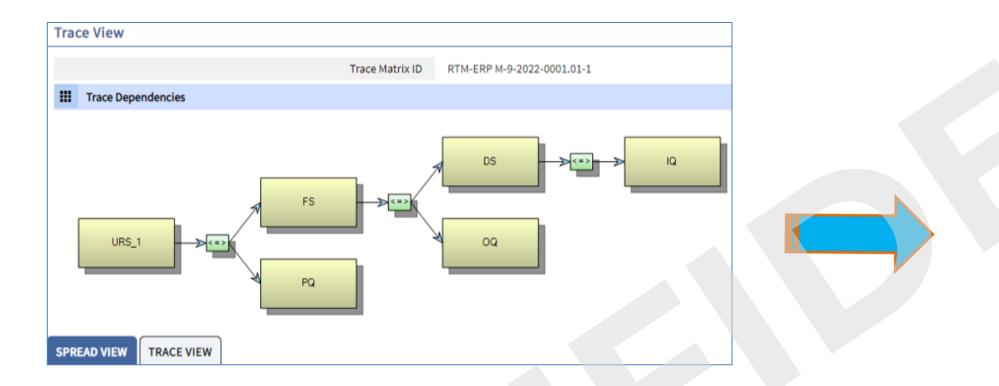
Verify that the mandatory fields

and the Electronic Signature are

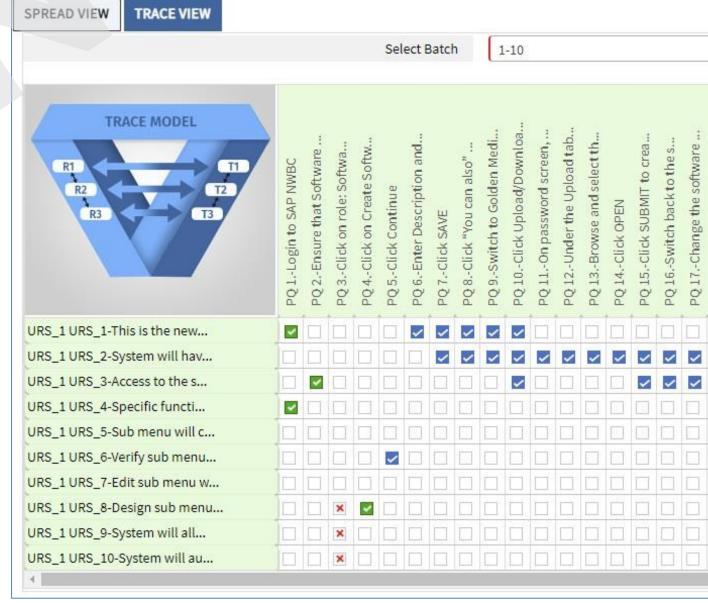
# **VLMS: Test Traceability**



Thank to the references huge) job, it is possible to link URS with different Validation steps: FS, IQ, OQ, PQ, etc.



The system will automatically create the traceability matrix and will show the test execution progress





### **DIGITAL VALIDATION: PRO and CONS**





Unique System for the management and sharing of Validation/Qualification documentation among The Menarini Group



Tree-gerarchic structure for an easy search of documentation:
Site → System → Document



Std System Assessment in line with Company Policies and Procedures



Management of template and test libraries for a quick creation of std documents and protocols



Electronic completion of Risk Analysis starting from a std risk model (es. FMEA) and automatic calculation of Risk Class and Risk Priority



Test execution, evidence capture and protocol completion totally paperless



Dinamic Traceability matrix automatically created and updated with test progress and results



Standard review and approval Workflows



Automatic cheduling for Periodic review and re-Qualification with automatic notification to key functions



Registration and management of validation deviations directly inside the system.

# DIGITAL VALIDATION: Recommendation for implementation





Involvment of several users among the companies of the group can be time-consuming: user request/attivation, training, support for first validation



Once rules are set: the system require them to be respected: a good design helps to be more flexible during the routine system usage



A strong commitment of the sponsor is recommended in order to speed up the phase of data preparation and template design to speed up the starting process

# Main advantages of VLMS implementation





Strong collaboration among different departments and sites for document issuing and test execution



Backoffice job for signature collaction, test review and evidence management drastically reduced



Quick search of test cases and evidencies in case of Audit request

# Q&A







