Implementation of a Pega-based SKU lifecycle process in an Agile way

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Helping people live better lives

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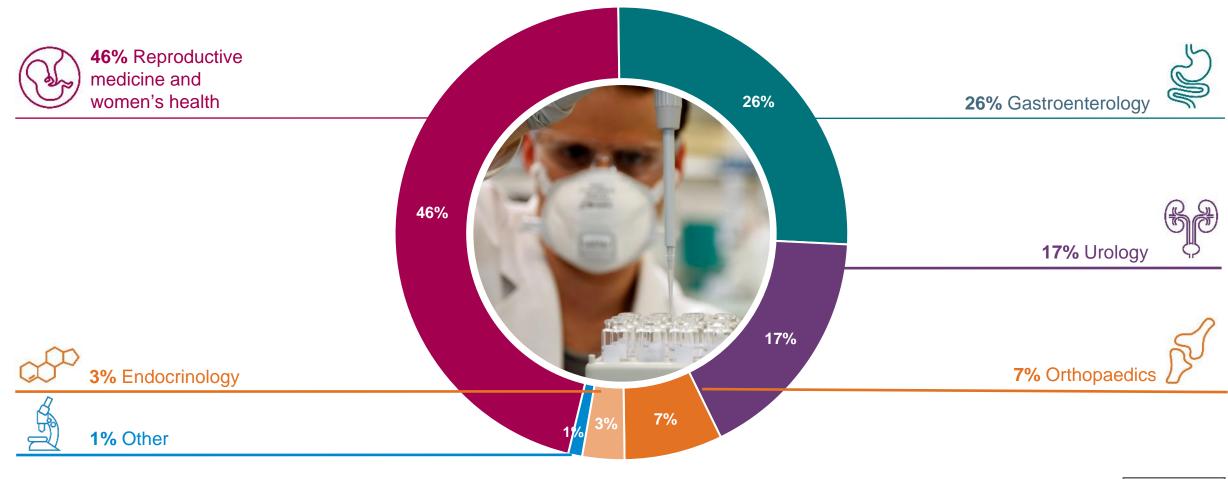
Company overview

- Privately owned, research-driven specialty biopharmaceutical group headquartered in Switzerland
- Committed to building families worldwide and helping people live better lives
- Global company with over 6,500 employees in 56 countries and distribution in 110 countries
- 2018 revenue: EUR 1.9 billion*
- 2018 R&D investment: 18%
- Founded in Malmö, Sweden, in 1950



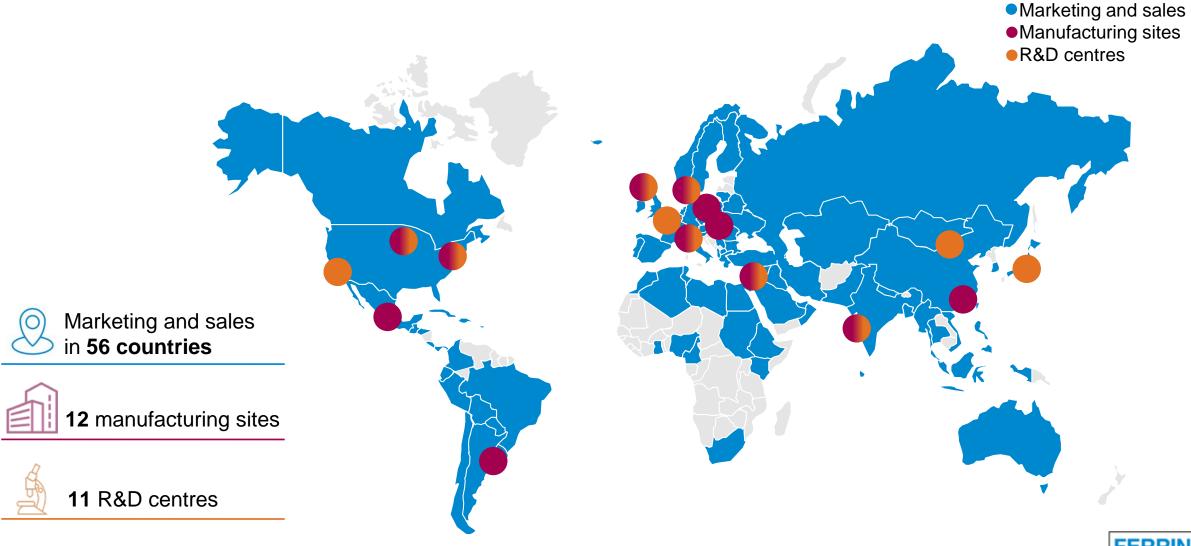


2018 sales overview by therapeutic area

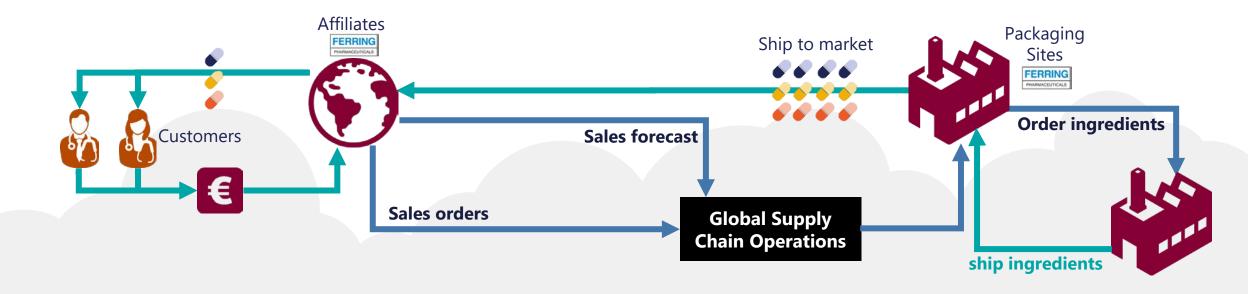




Global presence in over 110 countries

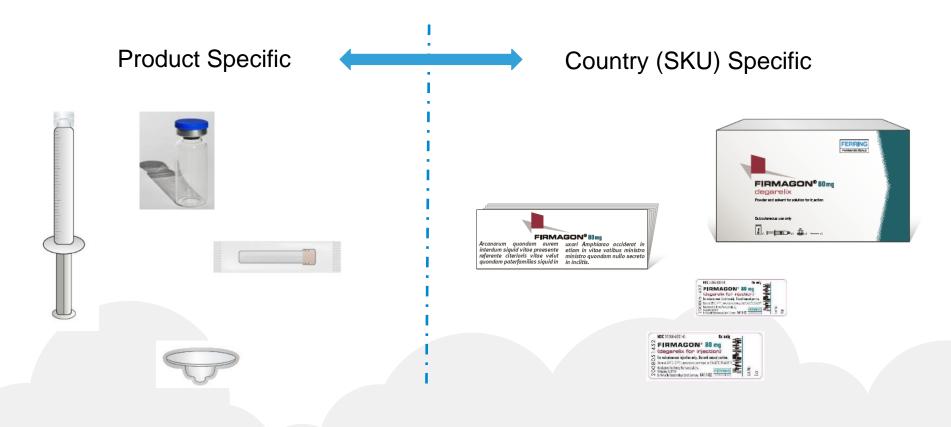


"Classic" Supply chain flow





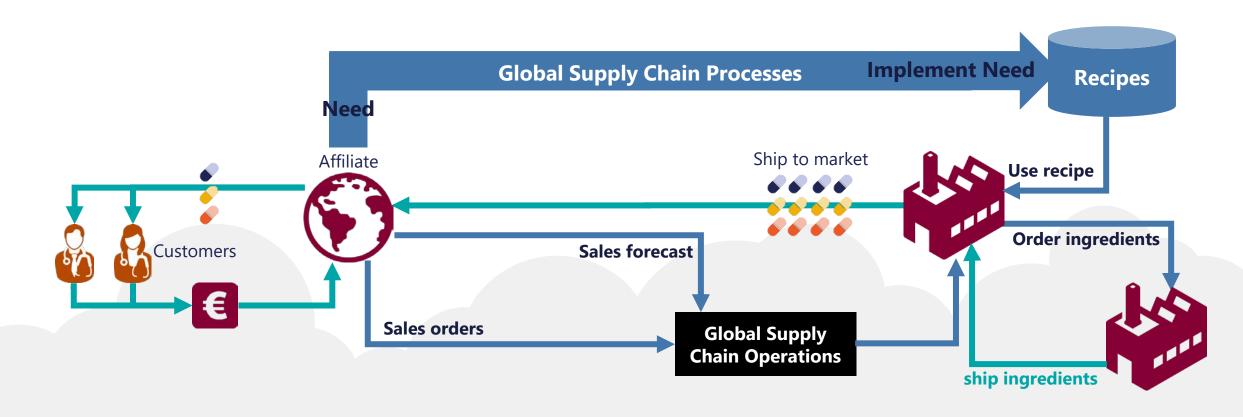
What is a Product recipe?



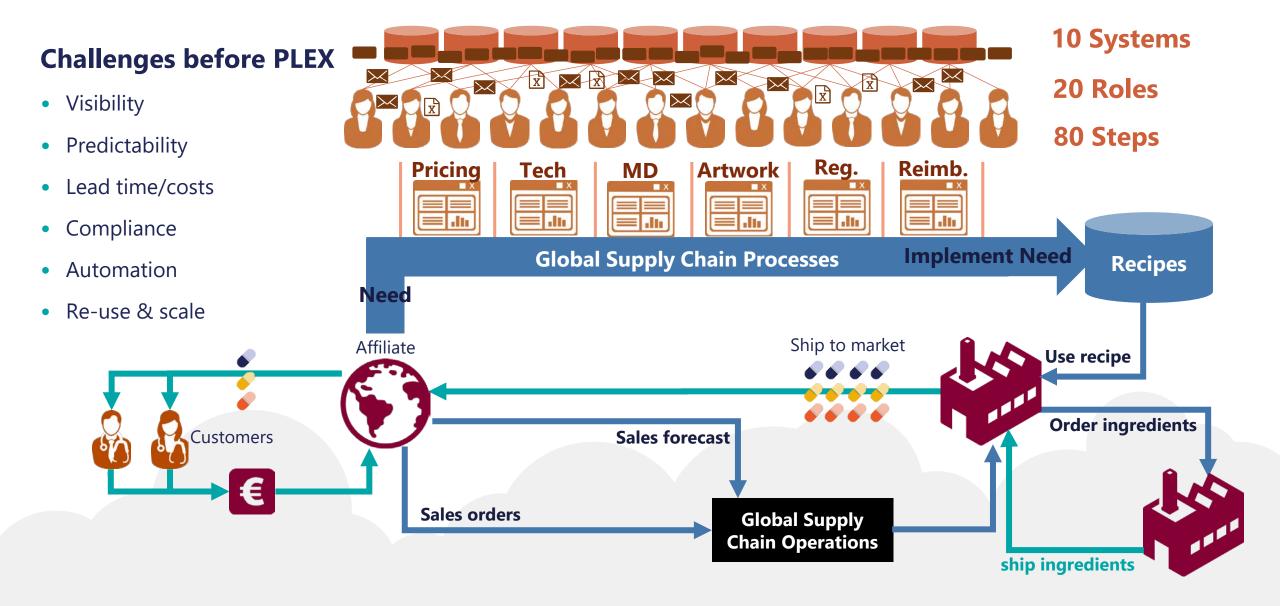




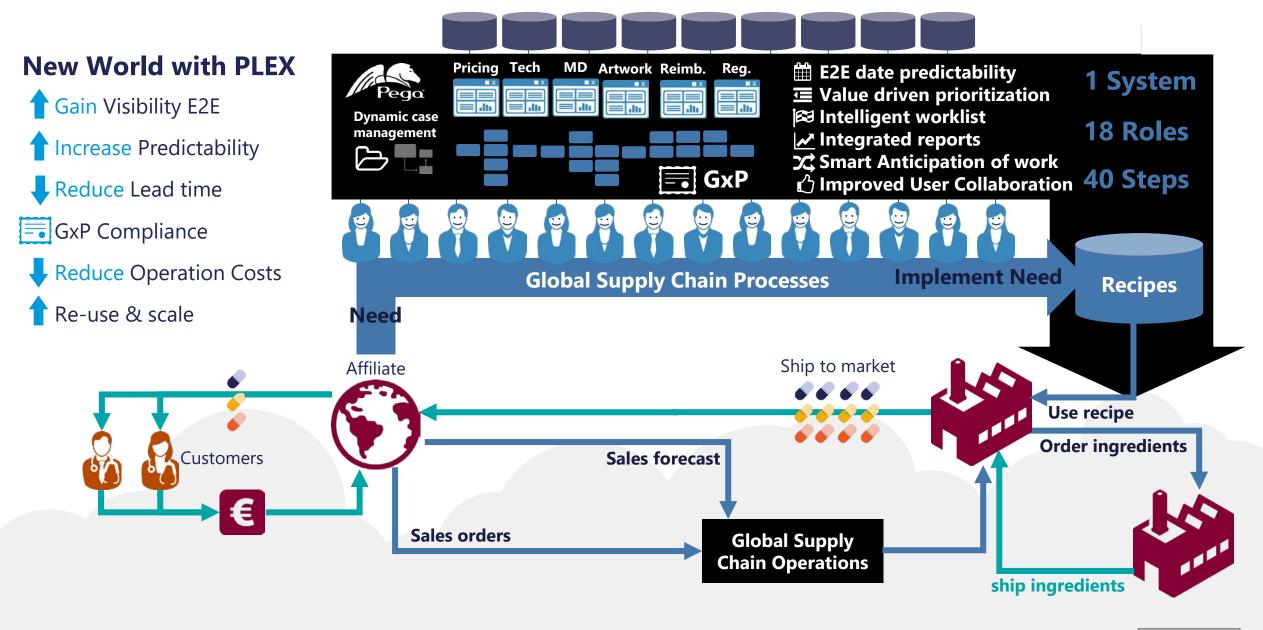
Global Supply Chain Processes















TRANSFORMING PRODUCT LAUNCH & CHANGE

Transform our organization with agile and compliant modification of product portfolio to rapidly supply patients in a dynamic world



CHANGE

INCREASE VISIBILITY



Multi level case hierarchy across all systems allow full visibility on overall process status and timelines. cost of delay is calculated and visible enabling to focus effort on most valuable work first. Visual representation of product launch/change per country.

100%

End to end visibility





INCREASE PREDICTABILITY



End to end calculation of critical path with reliable values across the sub activities.

Milestones and timeline forecasting will be made on dynamic case information.

Intelligent SLA and proactive alerts are generated to help steer actions ahead of the game.

20%-40%

Actual vs. Promised Date Variability Reduction





LENCE

EXCEL

MAXIMIZE FINANCIAL BENEFITS



Activities are intelligently run in parallel and cost of delay is used to prioritize work and get most valuable work done first. Complexity is managed and common packs creation is a rational decision based on business value on creation and economies of scale.

Overdue cases number are reduced by proactive planning and decision making on the overall process.

20%, 10%

Overall Lead Time from change & launch decision to last shipment reduction





GxP COMPLIANCE



System allow to anticipate the start of some tasks at risk with full digital audit of approvals.

Stock management is manage to avoid product recall because of wrong SKU being shipped. System ensure that all approved LU are carried over for implementation diligently and otherwise notify the MU creator.

100%

GxP Compliance









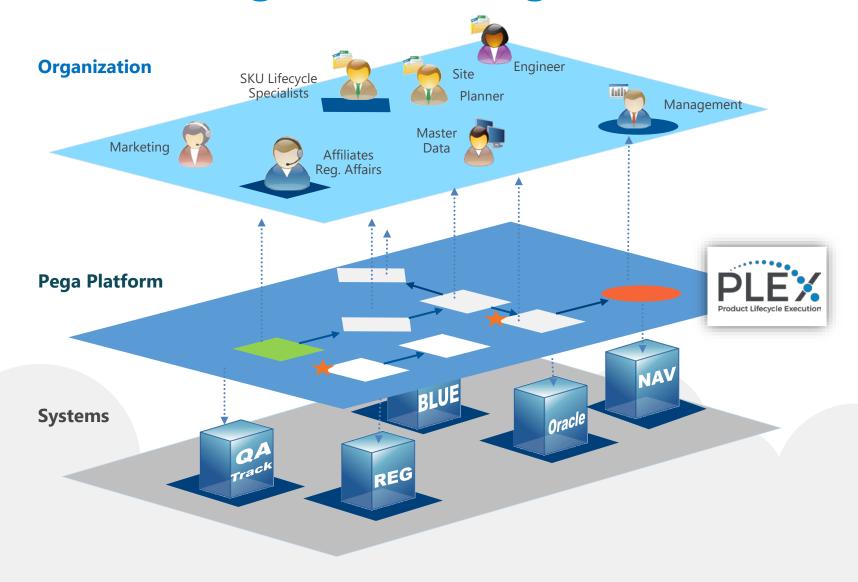
Automate manual steps and removing system switching needed by auto populating data and propagating data automatically to backend systems. personal worklist with assignments created by the system based on finer statuses definition and SLAs eliminate the need for local excel spreadsheet. Improved user experience and productivity with intent driven screens and intelligent wizards.

50%-70%

Manual steps in and outside systems removed on the overall process



Case & Process Management for Digital Process Automation



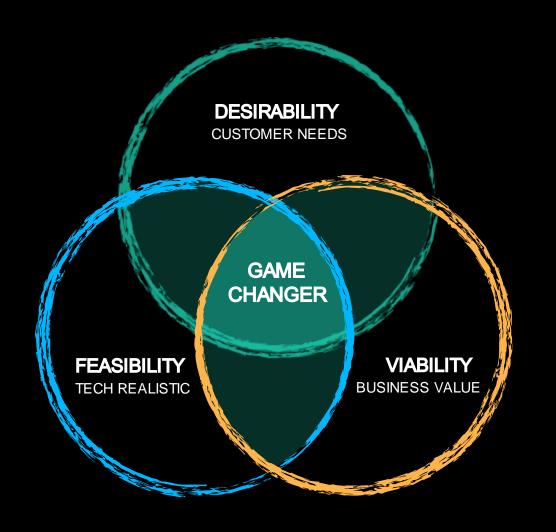
QA track = Change control System **Blue** = Artwork Management System

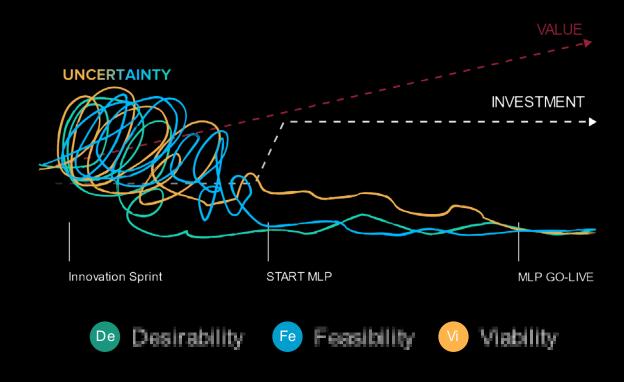
Oracle = ERP plants NAV = ERP distribution











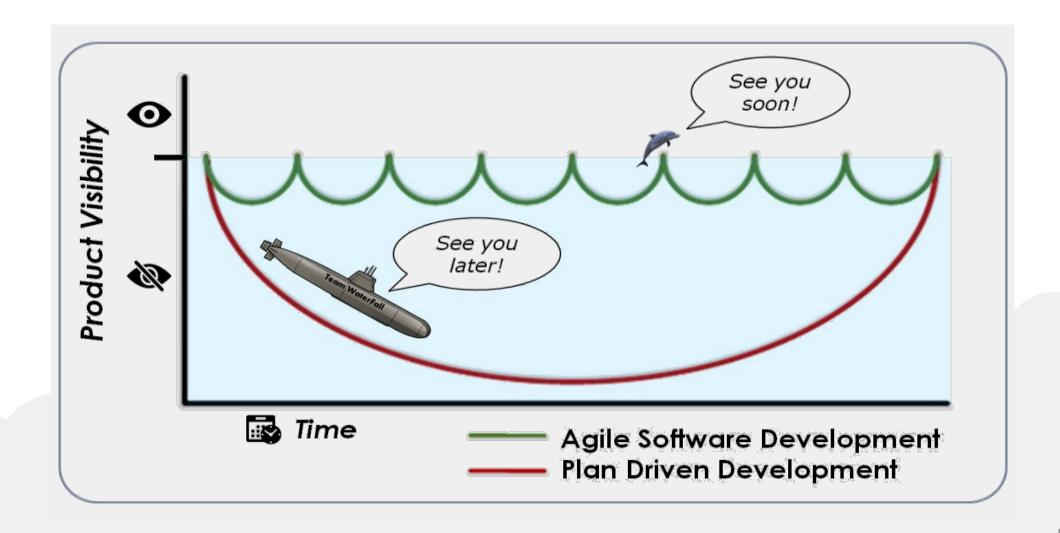




Agile Delivery Model Product Manager Product **KEY USERS SMEs** Owner **STEERING COMMITTEE PRODUCT MANAGEMENT** STAKEHOLDERS **SCRUM** Master **IT Delivery Manager** Developer Developer SUPPORT AND DEPENDENCIES FOR THE PROJECT (architecture and quality, other systems, infrastructure, Developer facilities, support and tools) Developer Developer Quality Service **ITOPS Expert Service** Manager Manager **DEVELOPMENT TEAM** KE Pega

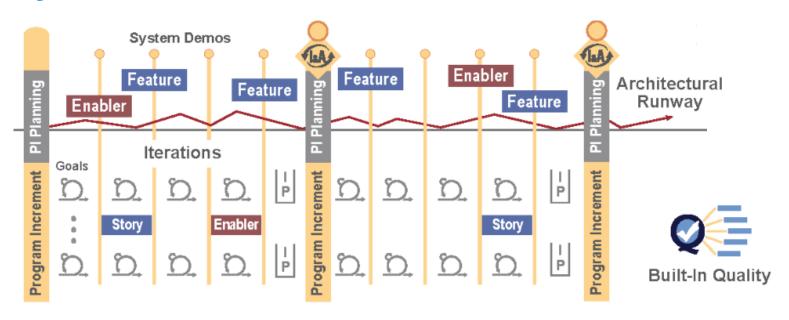


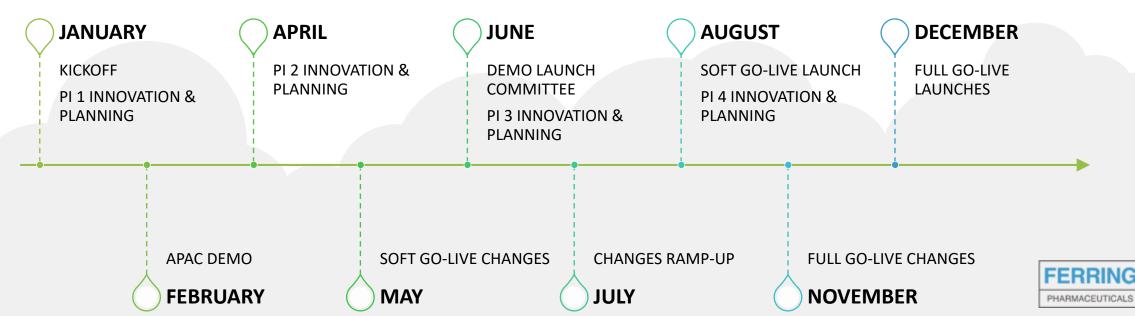
Change of Paradigm requires Training and Preparation

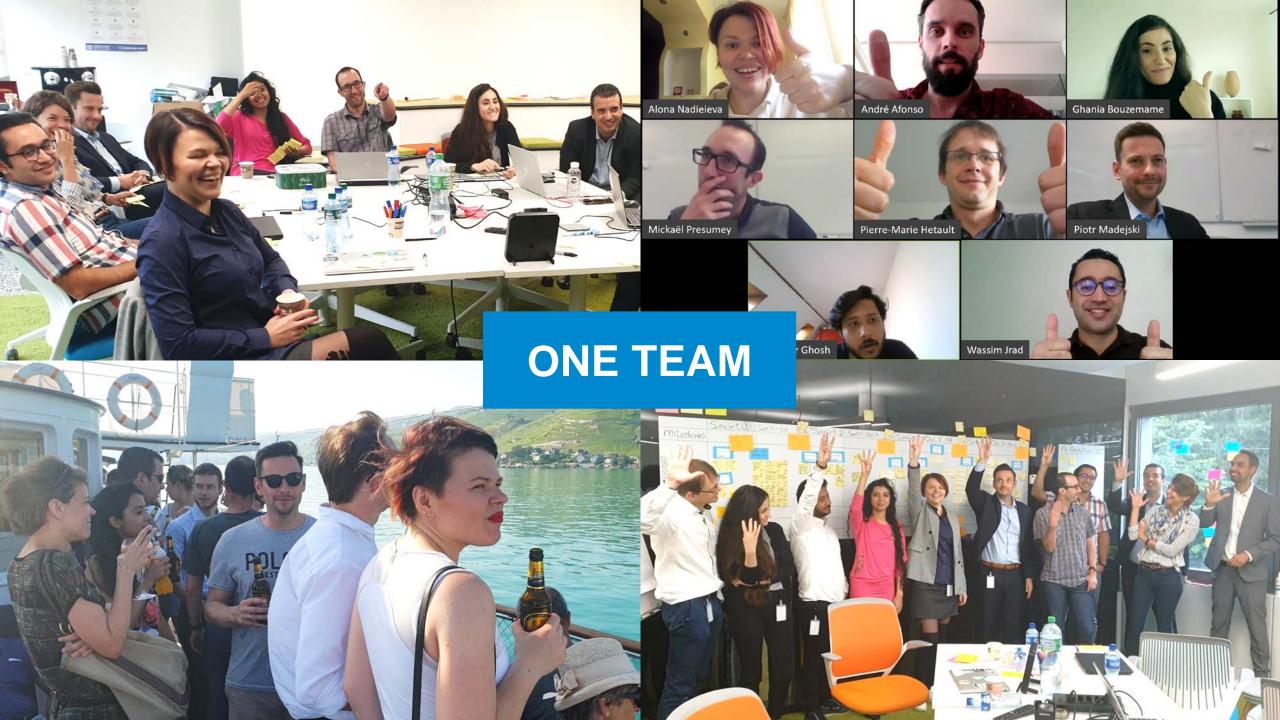




Agile Delivery Cadence



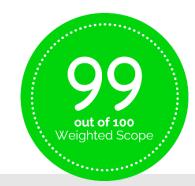




Agile Program Metrics



PEGA COMPLIANCE SCORE



82%
COMPLIANT RULES

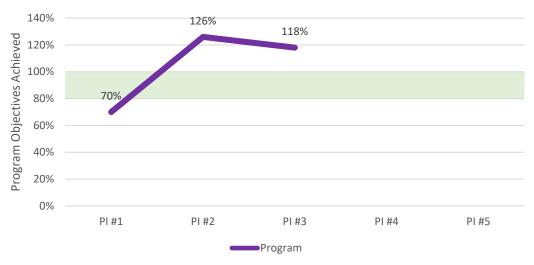
1485
TOTAL RULES

274
RULES WITH WARNINGS

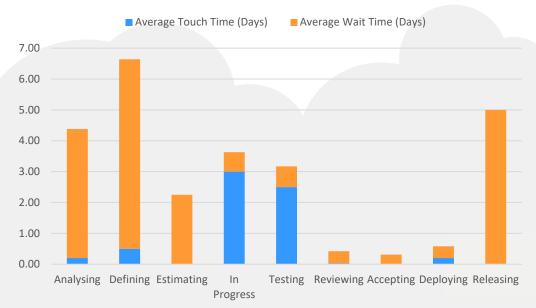
36
UNJUSTIFIED WARNINGS



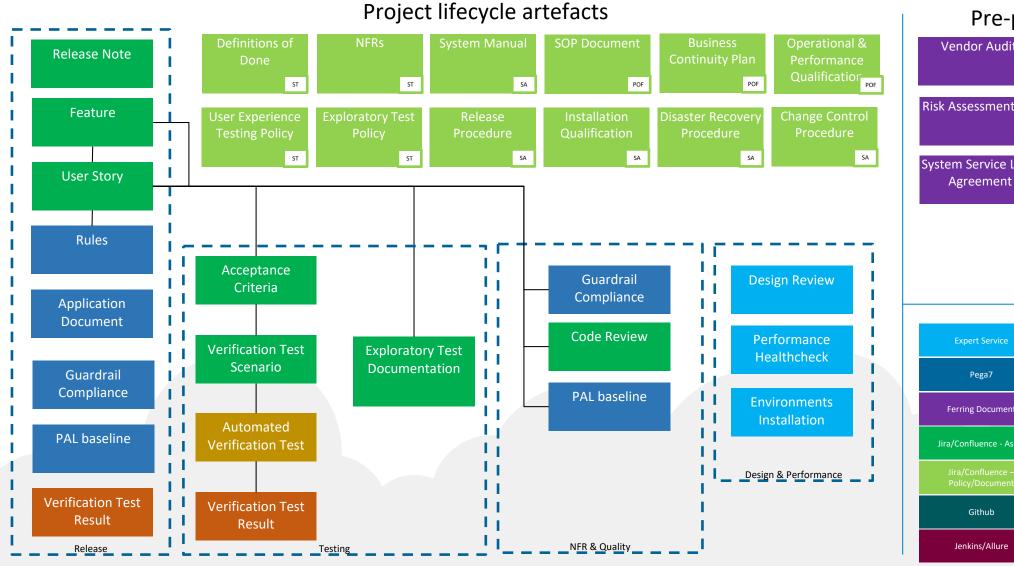
Program Predictability Measure



Pipeline Efficiency Stories

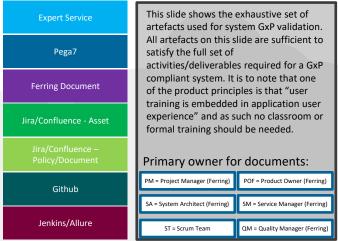


Agile in Pharma? Documentation and GxP Aspects



Pre-project artefacts







DESIGN SPRINT



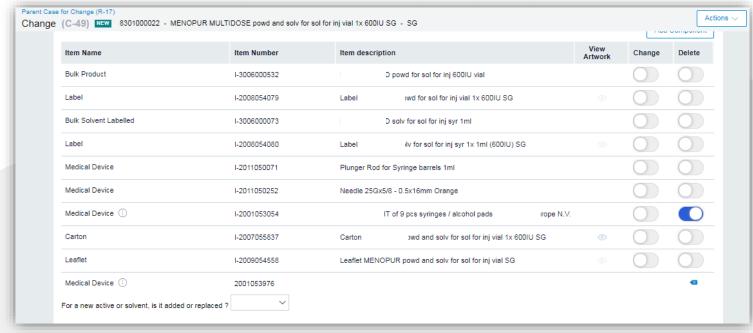


Agile development example: Invest on user-adoption 1/2

1. Before change: fully manual system

Finished Product description table		
Ingredient type	Requested Quantity Current item number New item number (if known	n) Semi-finished item number Material Specification Supplier
Carton	5007000177	F-MS-2056
Collection carton		
Collection carton label		
Substance label	5008000166	F-MS-1103
Solvent label		
Reimbursmentlabel		
Leaflet 1	5009000697	F-MS-3040

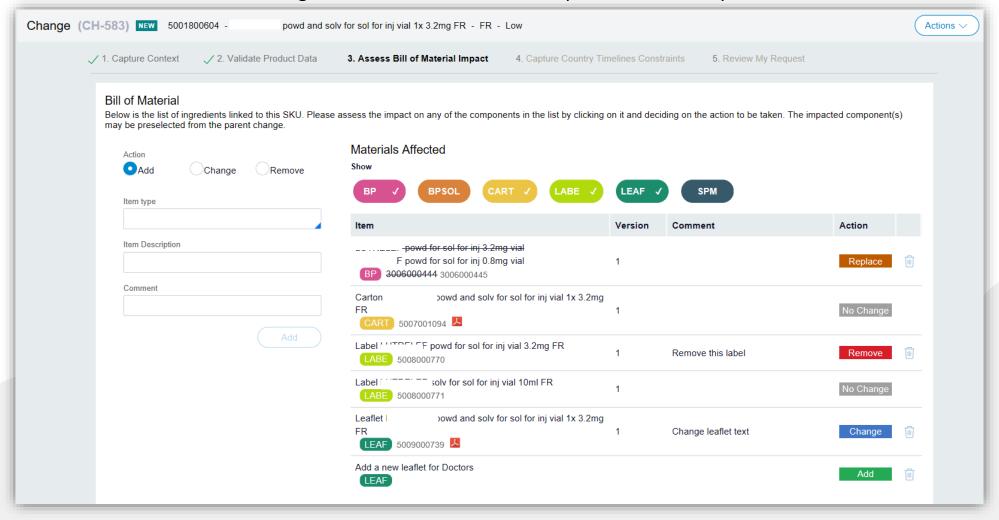
2. PLEX: addition of 2 complex interfaces: bring transparency about BoM content + current artwork





Agile development example: Invest on user-adoption 2/2

3. PLEX: Second version following end-user feedback and UX experience workshop.









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