

SESSION ID: **ll1225C**

BUSINESS EXPANSION WITH ROCHE DIAGNOSTIC'S REMOTE SERVICE

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AGENDA

1

Introduction
to **Kalypso**
and **Roche**

2

Roche
Remote
Services
Deep Dive +
Use Cases

3

Key
takeaways,
best practices
+ lessons
learned

LIFE SCIENCES WITH KALYPSO

Delivering better patient outcomes through digital transformation

From PLM and digital QMS to connected products and smart manufacturing, we work with 30 of the top 50 life sciences companies to help them improve patient lives and stay competitive in a digital world.

DO DIGITAL WITH PURPOSE. SOLVE BIG PROBLEMS. BETTER HUMAN OUTCOMES.

Delivering better patient outcomes through digital transformation.

Leading PTC Services Partner

Strategic Advisory | Implementation | Managed Services



15+ years
delivering
value with
PTC



250+
clients across
industries

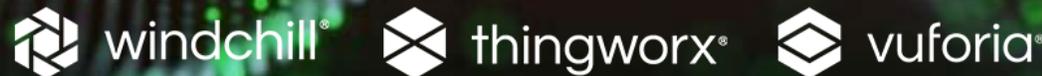


400+
PTC global
practitioners



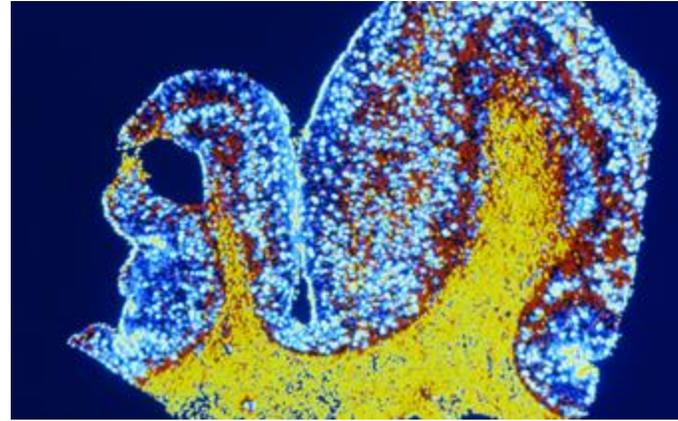
PTC Partner Network Recognition

advanced global system integrator



ROCHE DIAGNOSTICS AT A GLANCE

Integrated solutions for laboratories, clinicians and healthcare systems



World Leader in in-vitro Diagnostics*

Laboratories perform >29b Roche tests each year, obtaining valuable insights from blood, proteins, cells, or RNA/DNA; working to improve the lives of patients in more than 150 countries.

Industry leading portfolio across disease areas:

Autoimmune, Cardiology, Endocrinology, Central Nervous System, Hematology, Hepatology, Infectious Disease, Inflammatory, Metabolic Diseases, Neurology, Oncology, Pulmonology and Women's Health.

Wide range of Products, Services and Solutions:

Analysers, Assays, Clinical Decision Support, Consulting, Digital Diagnostics, Disease Management, Lab Automation and Software.

*In vitro diagnostics are tests done on samples taken from the human body, such as blood, urine or tissue.

ROCHE REMOTE SERVICE IN NUMBERS

60k devices & IT systems using 40k gateways in > 140 countries

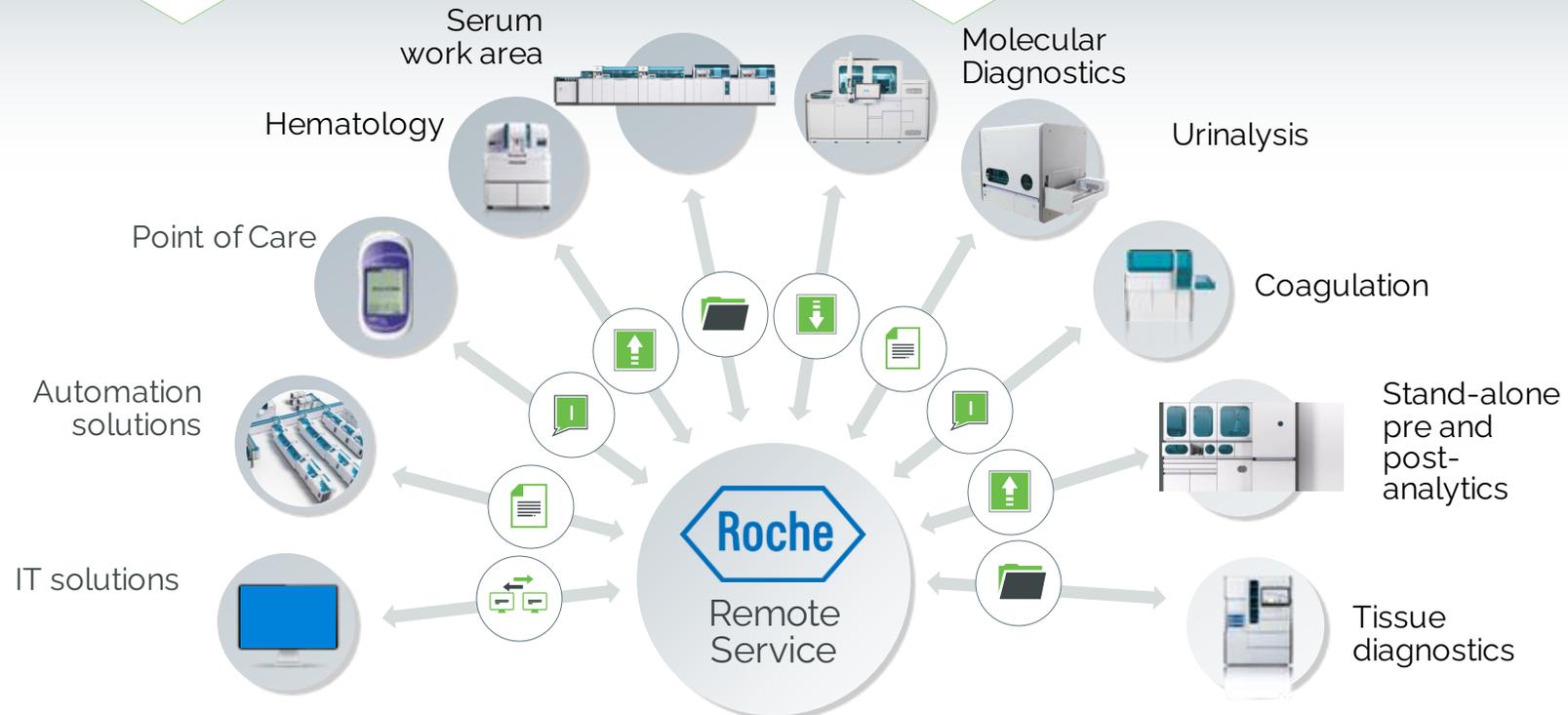
> 100 different asset types

> 233 GB (150k files) data upload per day (Ø in 2022)

> 7'000 users distributed globally

Yearly growth of 5-10% of the installed base

Increasing growth of data upload



REMOTE SERVICE KEY USE CASES

Connecting a Roche device using Remote Service enables a wide range of benefits



REGISTRATION / TRUST

Trustworthy assets
CRM Integrated device management



REMOTE SUPPORT

Instant remote error analysis (Screen sharing / Port tunneling)
Remote task execution



DIGITAL UPDATES

Production information
Software updates and other more



DIGITAL UPLOADS

Device data transfer for advanced analytics
Telemetry data collection and notification services



HIGHER UPTIME AND REDUCED DOWNTIME

Detect, identify and repair potential issues before they occur.
Provide guidance and support just when required.



ALWAYS UP TO DATE AND QUICK ISSUE FIXES

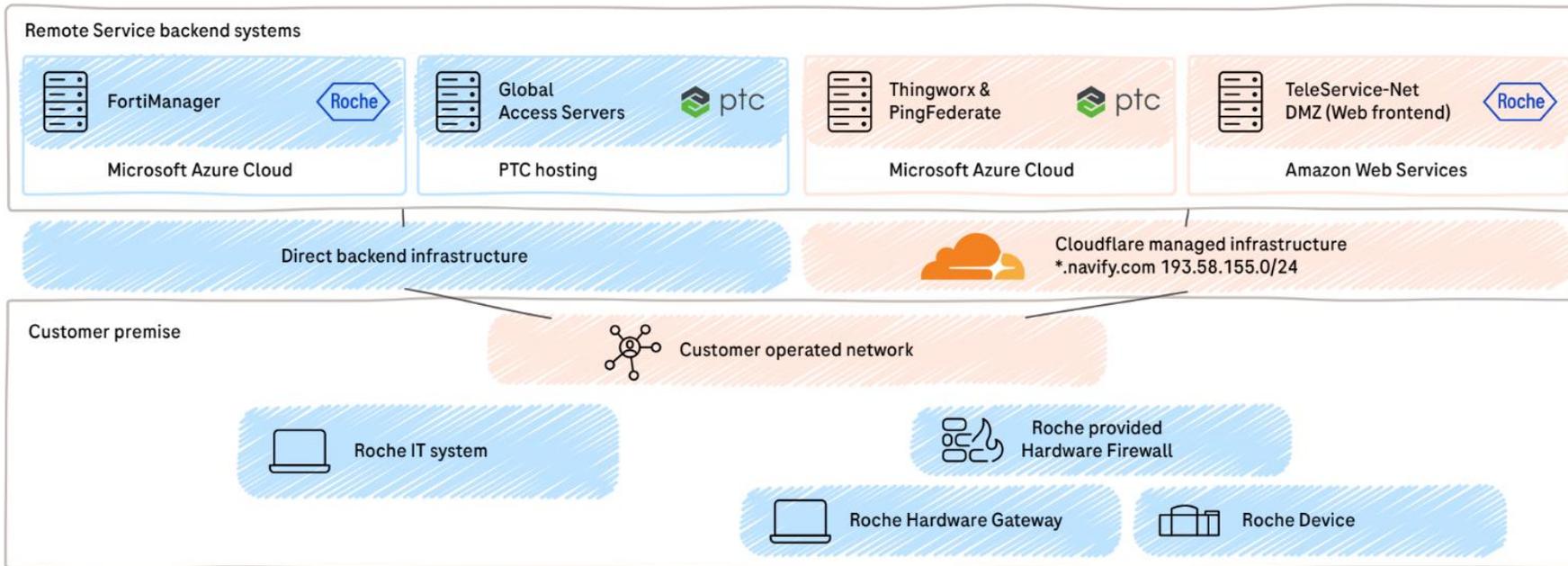
Replace physical media and delays by digital updates.
Have remote support to see device status to support.



SECURITY AND DATA SAFETY

Remote Service is certified according to ISO27001, ISO27017, ISO27018 and ISO13485. HIPAA compliance is in process.

SOLUTION STACK - TECHNICAL ARCHITECTURE



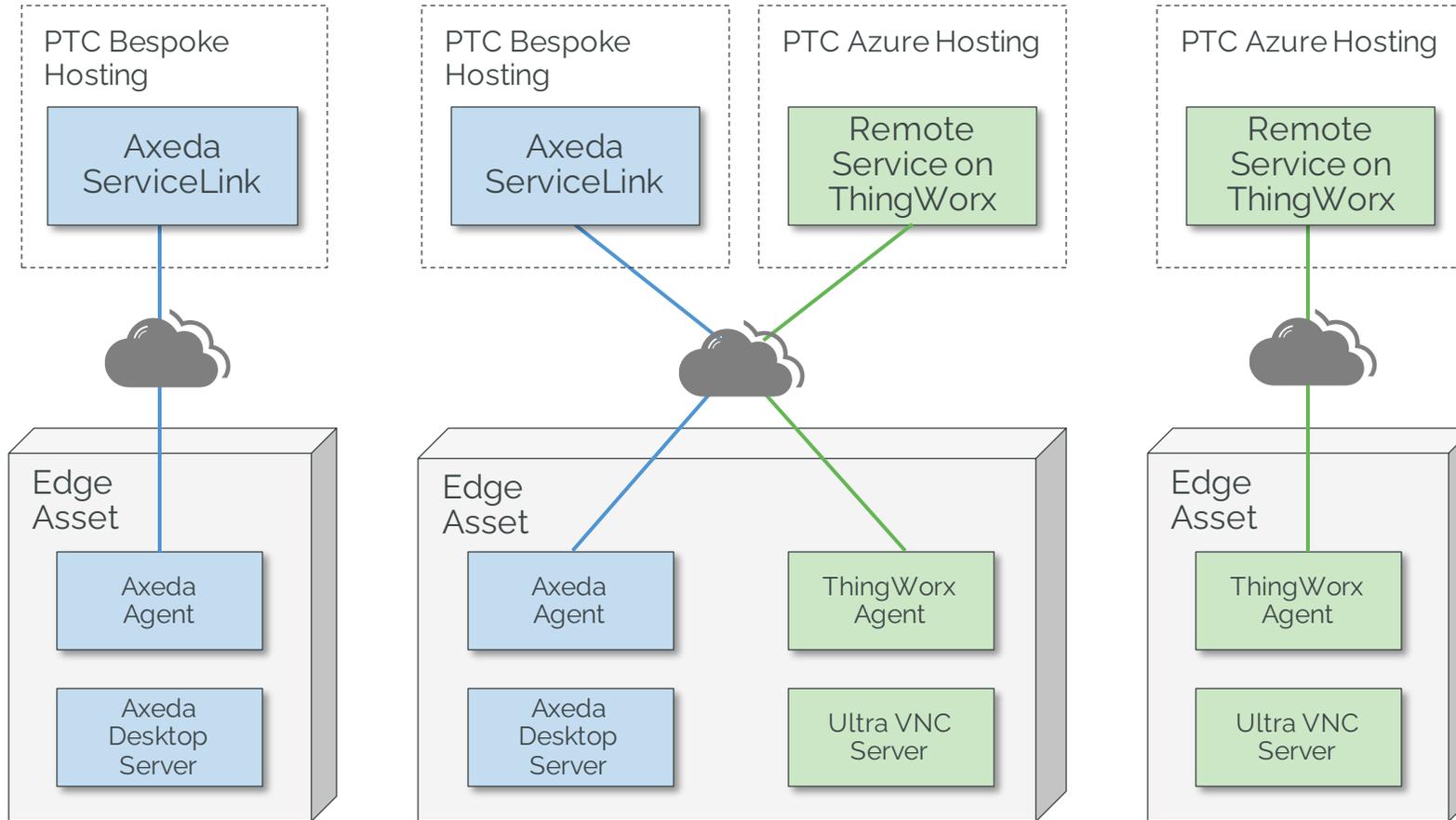
- Separate environments for Global and China regions
- Multiple instances of the solution within each region to support various levels of testing, verification and validation
- Deployment automation and use of GitLab integration

MIGRATION APPROACH

As-Is

Transition state

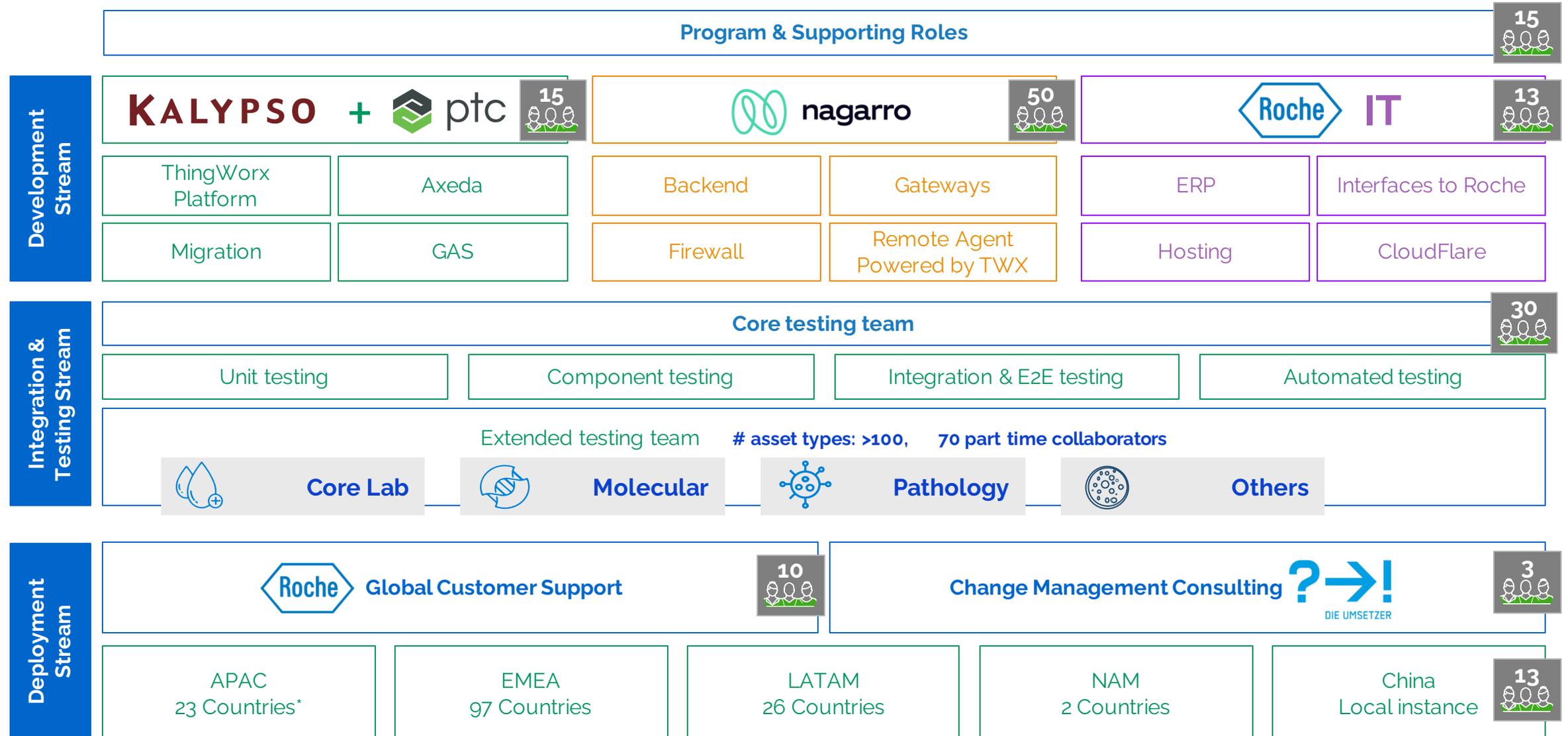
To-be



Flow overview:

- Select Asset(s) for migration
- Perform data quality checks & business rules validation
- Deliver new Agent software and upgrade scripts to the Instrument
- Onboard asset in TWX
- Perform cleanup on the Instrument to remove legacy software

ONE TEAM WITH COMMON OBJECTIVE



* excluding China

BUILD INCREMENTALLY WITH FAST, INTEGRATED LEARNING CYCLES

	Oct 21-Dec 21	Jan 22 - mid Mar 22	mid Mar 22 - Jul 22	Aug 22 - Oct 22	Nov 22 - Jan 23	Feb 23 - mid May 23	mid May 23 - Aug 23
	PI 1	PI 2	PI 3	PI 4	PI 5	PI 6	PI 7
	<p>Setting foundation</p> 	<p>Basics feature set</p> 	<p>Core workflows integration</p> 	<p>Win10 readiness & User experience phase</p> 	<p>Win10 go-live & TWX feature completeness</p> 	<p>Everything ready for go-live</p> 	<p>Execute Win 10 + TWX remote upgrade</p> 
Main challenges	New team setup & ways of working	Execution of current PI and parallel preparation for the next one	China specific regulations	Environment / UI stability and performance More work than expected	Base product and infrastructure issues Windows 10 remote upgrade high failure rate	Customer concerns triggered by affiliate engagement	Finish in time!
Adjustments	Team training and coaching	Adjustment in PI cadence - Inspect & Adapt iteration implementation	Setup China local implementation team with support from Kalypso	Enhanced testing on NFRs Extra resources to meet timelines	Regular engagement with PTC Integration of fixes Collect more data from installed base.	Global assessment of regulatory / security compliance	We will see :)
Continuous User feedback		User demos Early adopters group creation	User demos Early adopters feedback	User demos User experience phase (UEP) Hackathon for integrated systems	User demos First Customer Monitoring for Windows 10 upgrade	User demos Agent Early access UEP in production: affiliates & instruments	Go Live - First Customer Monitoring for Thingworx

USER FOCUS

User insights and feedback are the biggest assets

Early adopter group

Local Subject Matter Experts representing different regions

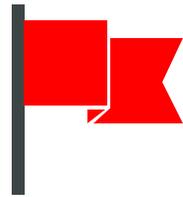
&

UX Lead

Making a link between user needs and development team



Get user perspective



Identify show stoppers and critical red flags



Find and use small tweaks with maximum impact



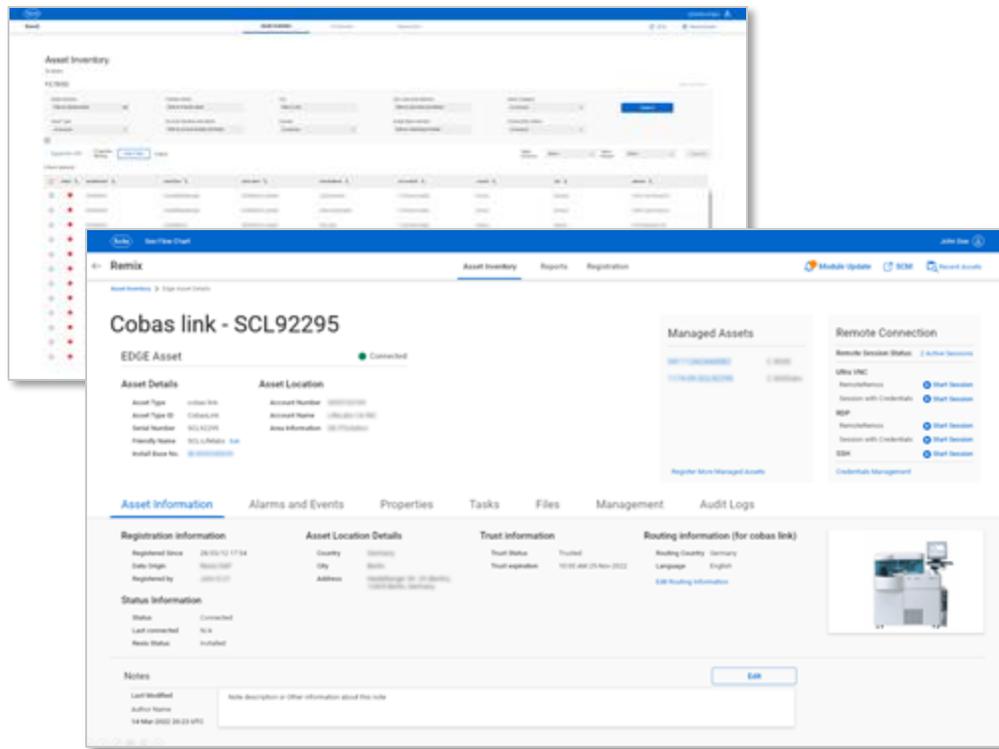
Build your local community



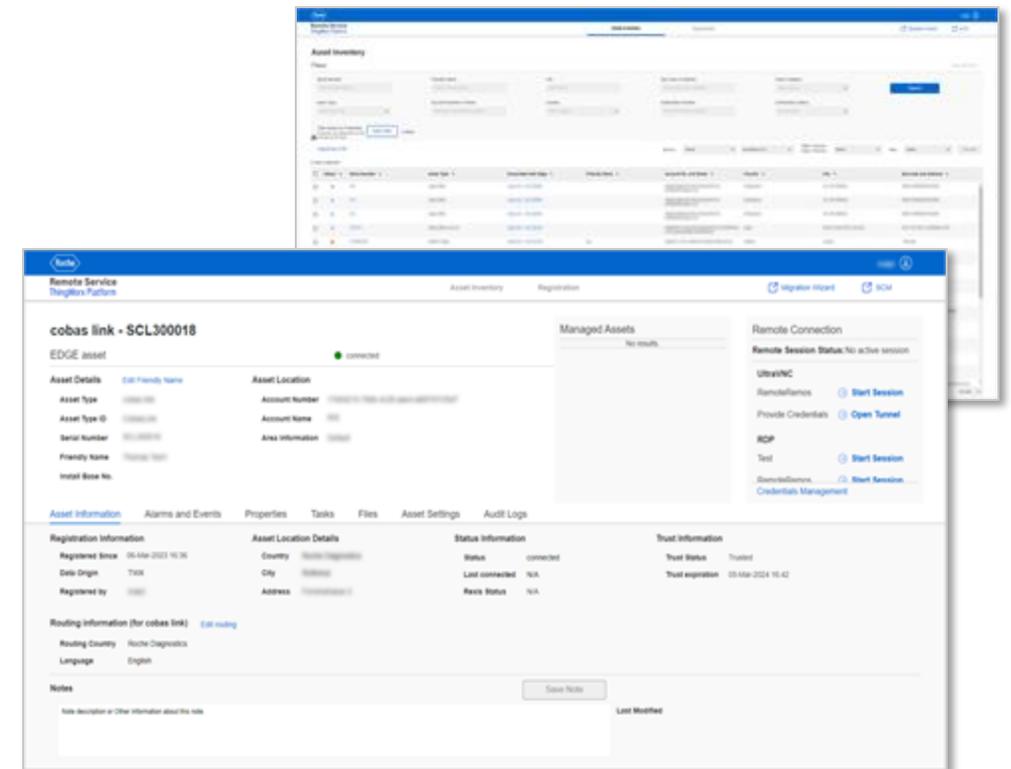
Ensure business continuity and deployment success

UI / UX JOURNEY – KEEPING END USERS IN FOCUS

Screenshot from **wireframe**



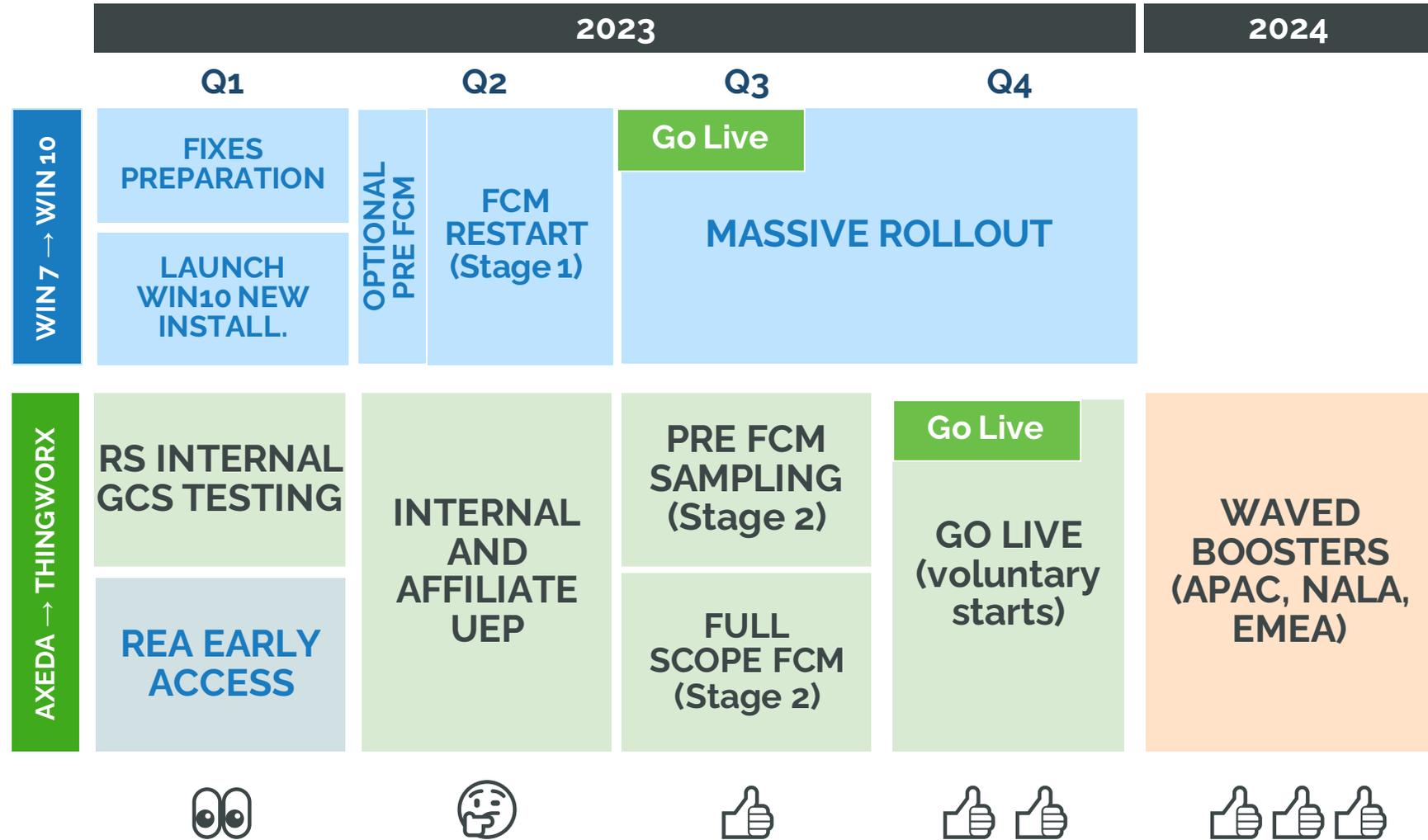
Screenshot from the **final product**



2023-2024 OUTLOOK: THE STAGED APPROACH

We apply the next set of learnings moving forward

- **Learning 1:**
Go into production asap
- **Learning 2:**
Include a varied install base to collect enough observations
- **Learning 3:**
Take incremental steps, coming closer to customer setups with each step



GOAL: get more and more confident before going to customers

CLOSING NOTES



Work as a One Team: create a safe and inclusive environment where everyone can speak up no matter what's their role or organization they belong



Work with scale in mind, make performance testing a recurring ritual



Work for purpose: engage with your team so they understand why we do things and what's really important at this stage - team will commit and prioritize correctly



Engage Users to provide constant feedback, work with UI/UX experts to ensure optimal workflows



Establish DevOps early on to automate deployments to multiple environments



And don't forget to have fun!



 **READY TO LEARN MORE?**

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how we can support your business.

ptc.com



THANK YOU

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