

BRUKER @ UKMRM

Service & Lifecycle Support Division: Customer Centric Process Improvements

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Agenda

Initiatives for Customer Success - Overview O5 Connected Services

Details about Improvements

Sustainability with Integrity – Helium Solutions

Predictive Maintenance & Remote Service
 Diagnostics - Connexus[®]

2





Initiatives for Customer Success - Overview

Continuous Services Innovation | Starting From a Unique Customer Support Base



Market position achieved over many years is combined with continuous innovation of the service organization & processes (focus of upcoming slides)

- Exceptional MR portfolio (e.g. DNP, UHF, different type of cryoprobes) and performance at high product quality and reliability
- Dedicated and passionate field service engineer organization that is always going the extra mile
- Customer service team distributed across local entities enabling global coverage with close customer proximity
 - About 20 MR-dedicated field service engineers alone in UK & Ireland
 - Growth of the global field service org by 10% per year in 2023 & 2024
- Manufacturing operations based in Europe (DE/CH/FR) offering fast access to 2nd level support incl. on site
 - Global 2nd level support from >50 experts, with extensive technology and field experience
 - Access to 3rd level support via R&D experts in the factories
 - Access to application scientist teams (DE/CH/FR/UK/ ...)
- Global Bruker MR research community with huge opportunities for scientific exchange



Initiatives for Customer Success



Customer Information:

- Customer portal
- Customer communication:
 e.g. repair, service
 appointment, site &
 installation planning

Customer Experience (CX):

- CX monitoring (NPS)
- Transactional Service (customer satisfaction) surveys
 - (after repair, after install, after visit)
- Deep dives on NPS results



Service Appointments:

- Proactive scheduling of maintenance appointments
- Global and regional optimized service planning
- Site & installation planning through dedicated teams
- EMEA: Growth in team size



Repair Process:

- Return process
- One Service Return Center
- Workflow improvements
- Local Repair Center extension and enablement: US & FR
- Constant improvement in logistical support



Parts Availability:

- Service parts fast channel
- Critical parts sourcing
- Extension of the global loaner pool
- End Of Production (EOP), End Of Service (EOS):
 <u>Product End Of Life |</u> <u>Bruker</u>; All dates are listed on our Bruker webpage



Bruker BioSpin Solutions | Supporting Sustainability



Helium Recovery & Liquefaction Sustainable Innovation in line with the Circular Economy



Connected Services

Supporting lab efficiency and effectiveness for economical operation



LabScape Lifecycle Services Comprehensive service models for uptime, performance and longevity



Ecommerce

Sustainable procurement of consumables, parts & services, software renewals, trainings



Digital and Remote Service Proactive and predictive service ensuring operational continuity



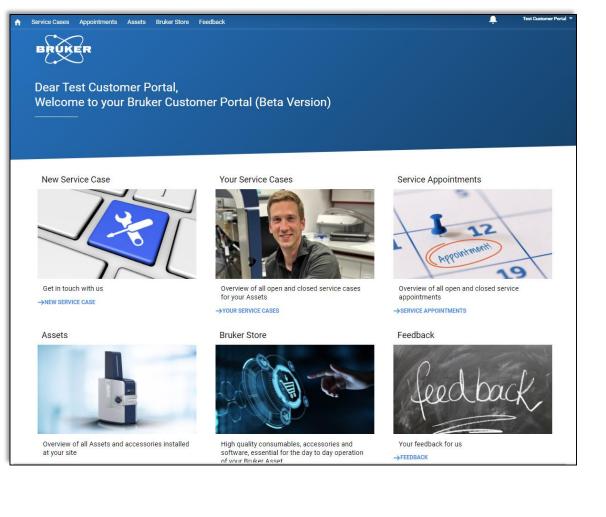
Pre-owned systems Business Viable, sustainable business model for refurbishment and resale of owned parts & systems



Details about Improvements



Accessing Your Information | Your Customer Portal



Through the customer portal, customers will be able to:

- View their assets
- Create & view service and application cases
- Communicate with Bruker on a specific case
- View service appointments
- Review and request to change their data
- Access the Bruker Store

Next-Steps:

- Beta-test with selected customers (started Feb 2024)
- Adding further beta customers in 2 waves is currently ongoing
- Collect additional requirements based on customer feedback to implement them in Q2-Q4
- External benchmark to derive further improvement ideas completed
- Further expansion to customer base



Improving Return Process | One Return Address for Europe

Investment into new European Service Return Center in Ettlingen



- Building finalized in December 2023 (https://www.youtube.com/watch?v=QR0J6WFHfX8)
- State-of-art warehouse management system and Kardex storage location
- All cross-functional interfaces defined and staff trained
- Investments in resources/ staff
 - Sr. Manager Global Service Processes
 - Return Center Logistics Admin
 - Repair Coordinator for EMEA
 - Manager Digitalization in Service

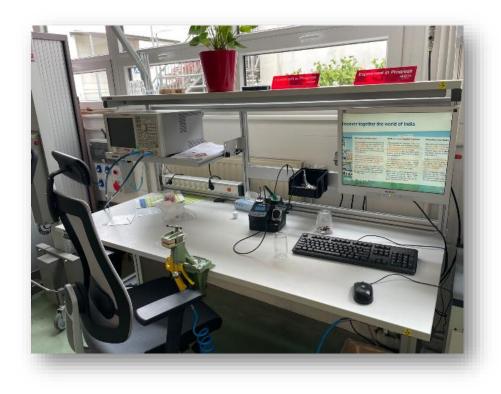




Improving Repair Process | One Service Repair Center Europe

Investments into infrastructure, equipment and know-how / trainings

- Local repair center in Wissembourg, FR
 - 120 probes repaired in 2023 with a target of >200 probes/ year in the future
 - New staff hired
 - Repair of liquid probes, iProbes and basic repairs on solid probes possible
 - Faster repair times & direct shipment to customer
 - Efficient logistics connection to European return center in Ettlingen
 - iProbe train the trainer
- Complementing factory repair process
- New equipment and investment in building



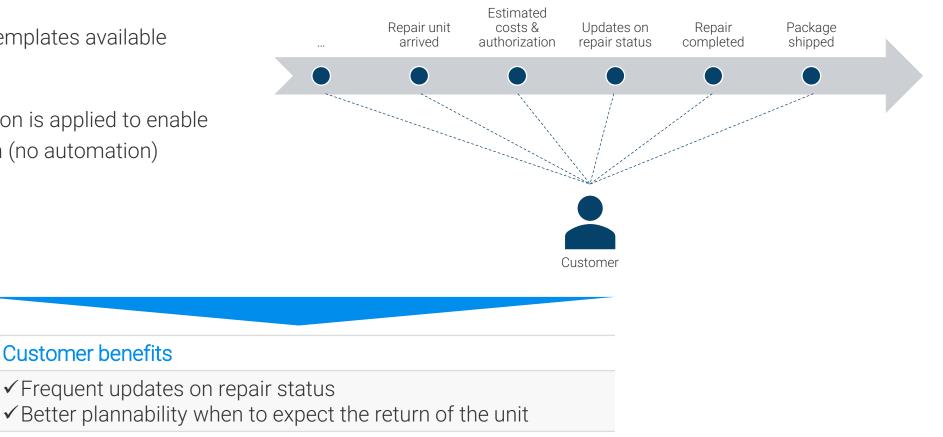




Pro-active Customer Repair Communication

Customer benefits

- Unified repair communication for both service repair center and factory repairs
- Standard communication templates available
- Regular customer updates
- Local language and salutation is applied to enable high quality communication (no automation)

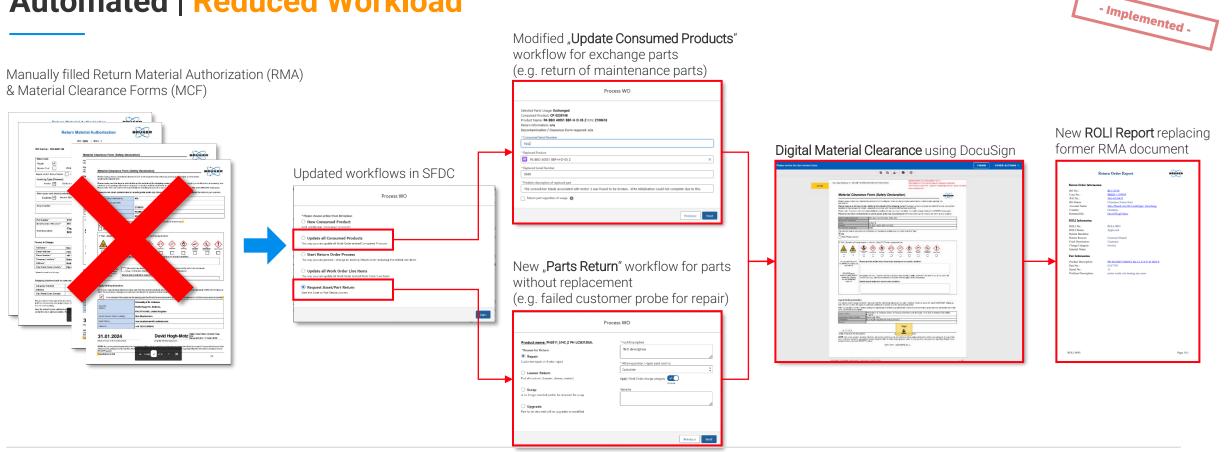




Repair process

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New Return Order Workflows & Material Clearance Process is Automated | Reduced Workload

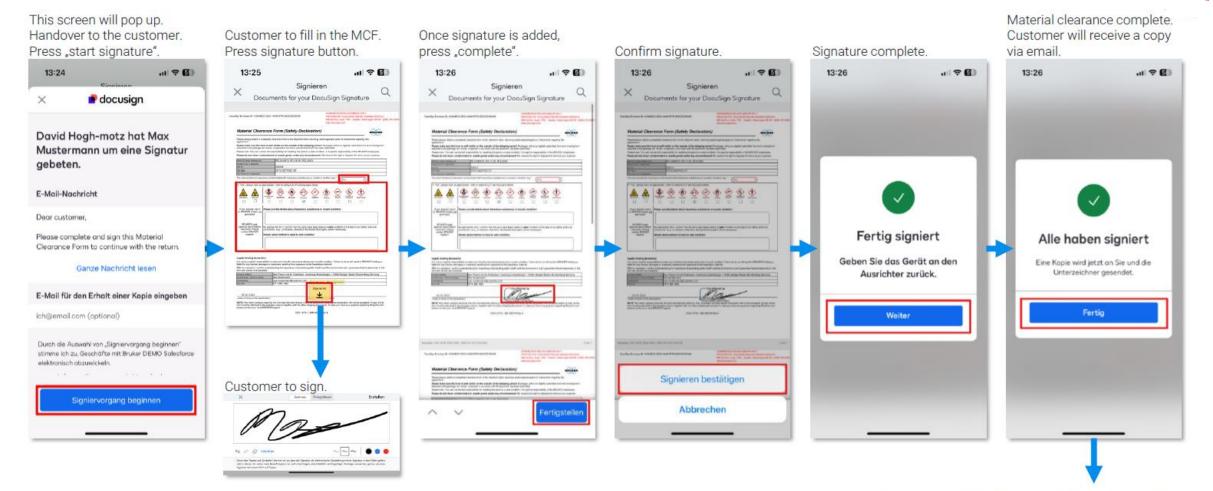


Customer benefits

Bruker benefits

- \checkmark No paper forms need to be signed anymore
- ✓ Immediate in-person signing on the Field Service Engineer's mobile device possible
- ✓ No paper forms to be manually filled and uploaded anymore
- ✓ Material Clearance Forms automatically created, sent to the customer and attached to Return Order after signature
- ✓ Better traceability of missing MCFs (customer signed)
- ✓ No more missing or incorrectly filled RMA documents
- ✓ No more missing MCFs

DocuSign Solution Enables Customers to Digitally Sign the Material Clearance Form | Faster Process



Signed MCFs will be automatically uploaded to the RO

- Implemented -



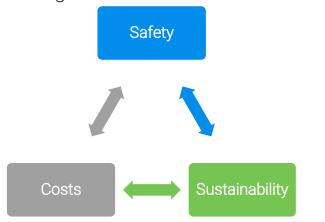
Sustainability with Integrity – Helium Solutions



Responding to Customer Needs | HelioSmart Portfolio

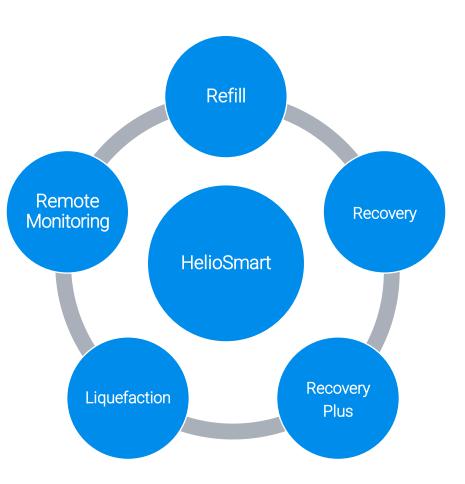
Personalized solutions depending on:

- Evaporated helium volume
- Access to liquefaction facilities
- Alternative use of Helium gas
- Energy and Helium cost
- Collected Helium gas collected reliquified in situ, off site or re-used as a gas



How Bruker supports the customers:

- Comprehensive consulting for optimized lab solutions
- Magnet Remote Monitoring and Refill Planning Tools
- Validated solutions for magnet safety
- Bruker Cryogenics specialists
- Access to NMR magnet technology expertise
- Installation by Bruker service teams
- Turn-key Helium solutions fully integrated with NMR lab environment



Solutions for Helium Recovery & Liquefaction | HelioSmart Products



HelioSmart Recovery

HelioSmart RecoveryPlus

Collects helium losses from NMR magnets during **steady-state** and compresses them into high-pressure gas cylinders.

Typical recovery rate of 80 %

Max. annual helium equivalent consumption per unit of 1,200 l

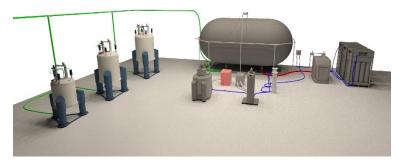


Collects helium losses from NMR magnets during **steady-state and liquid helium refills**, compressing them into high-pressure gas cylinders.

Typical recovery rate > 95 %

Max. annual helium equivalent consumption per unit of 18,000 l

HelioSmart Liquefaction



Collects helium losses from NMR magnets during **steady-state and liquid helium refills, purifies and liquefies** helium for reuse in a closed cycle.

Typical recovery rate > 95 %

Max. annual helium equivalent consumption per unit of 9,000 l

Very Strong Market Demand | Track Record of Successful Installations

HelioSmart Liquefaction

- Bruker factory sites in 2024: Wissembourg, Fällanden, Ettlingen, Billerica
- Univ Basel (CH) with 5 magnets up to 900 MHz finished 09/2023
- To be installed in 2024: Pfizer Groton (US) with 26 magnets up to 700 MHz and Boehringer Ingelheim in Germany with 10 magnets up to 800 MHz

HelioSmart RecoveryPlus

First installation in 2024 at Neurospin (France)

HelioSmart Recovery

- 25 units ordered
- 1 successful installations
- 5 installations planned in 2024



HelioSmart Recovery @ Merck Darmstadt (DE)

> HelioSmart Recovery @ Univ. Würzburg (DE)



HelioSmart Recovery @ RWTH Aachen (DE)



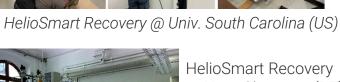
HelioSmart Recovery (a) Uni. Caen (FR)







HelioSmart Recovery @ Univ. Chemnitz (DE)





HelioSmart Liquefaction @ Univ. Basel (CH)







Predictive Maintenance & Remote Service Diagnostics - Connexus[®]



Remote Service | Sustainable Products



- Easy & fast contact
- Bruker proficient service team is ready to address inquiries and troubleshoot issues avoiding unnecessary on-site visits

abScape ProDiagnos



- Link your systems with the Bruker Cloud application
- Empower yourself to monitor and
- supervise systems
- independently,
- anytime and anywhere



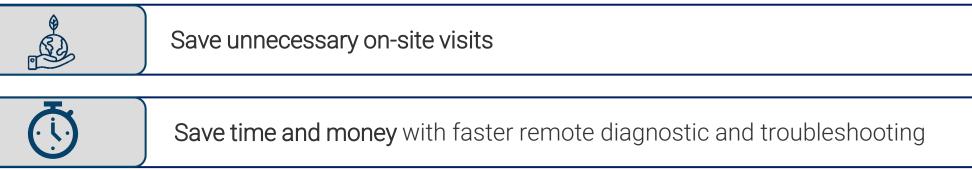


Enable Bruker to

- Monitor and supervise your systems and ..
- Provide timely, remote, proactive assistance to ensure minimal disruption to your operations



Remote Service Products | Benefits





Get your **systems' status overview** at a glance whether they are in the same room or from different buildings or sites, anywhere, anytime

¢	Actively identify system configuration and performance changes

%	Optimize instrument uptime	
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When combined with **AutoCalibrate**, keep a close eye on your console and probe status to enhance data quality



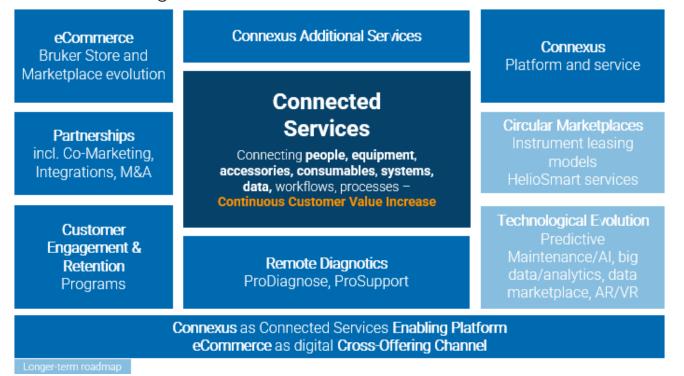
Connected Services



Connected Services Ecosystem | Building Blocks

- Synergies Connexus as a platform and future additional services
- Connexus Service Providers buying lab supplies in Bruker Store
- Third-Party cooperation partners in Bruker Store and Connexus
- Offering Remote Diagnostics products in Bruker Store
- Promoting Remote Diagnostics on Connexus

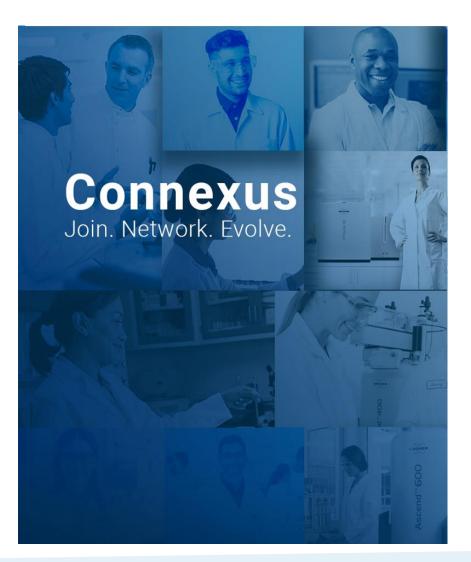
Connexus®, next to LabScape the second key Services and Aftermarket pillar will be positioned to cover all **connected and future digital service offerings,** further supporting our customers' digital transformation.





Connexus ® | NMR Capacity-Sharing Cloud Platform

- Enables customers requiring advanced NMR analysis techniques to connect to laboratories with the necessary capacity.
- Plays a key role in the connected services ecosystem as an enabling platform for digital services and connectivity.
- Aims to add value to the research consultancy network
- Outlook: extension to additional analytical technologies and specialized services and business models
- https://www.bruker.com/en/services/connexus.html
- https://www.azom.com/article.aspx?ArticleID=23123
- https://www.science-entrepreneur.com/blog-posts/revolutionizingnmr-access-the-bruker-biospin-connexus-platform

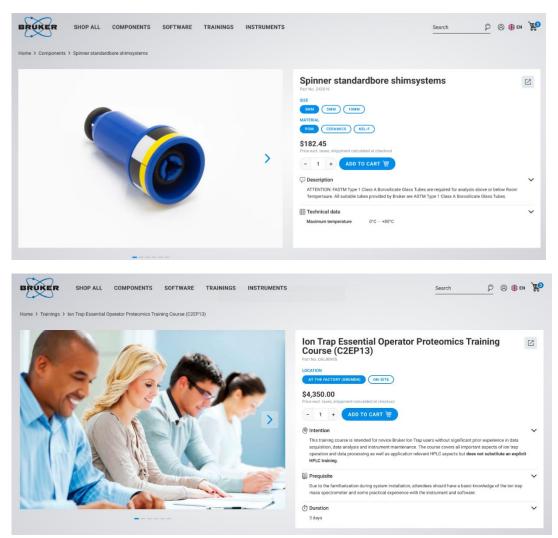


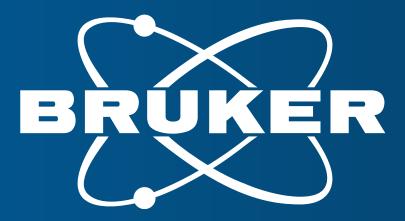


eCommerce | Making It Easy For Customers to Purchase for their Labs

- Relaunch of the One Bruker eCommerce platform in April 2023 as part of Bruker digital strategy
- Consumables and accessories and other aftermarket products, as well as training courses, software licenses and other intangibles from Bruker AXS, BioSpin, Daltonics, Optics
- Continuous portfolio expansion and customer experience improvement

Regular promotions offered throughout the year





Innovation with Integrity