

Industrial High-Throughput X-ray Spectroscopy

AUTOSPEC WP7 KICK-OFF MEETING

23 September 2026

ALBA Synchrotron, SPAIN (www.cells.es)



According to the description of the work package the main goal of this meeting is to develop the overall design parameters and specifications of this new industrial service in close coordination with industry stakeholders, service providers, ILOs and facilities.

WP7 Objectives: to pilot an X-ray spectroscopy service for industrial users focusing on creating a sustainable quality assured technology platform (T7.1) including interoperable sample systems (T7.2), and common data workflows (T7.3) that may be uniformly adopted across European light sources.

The goal is a high-fidelity **high-throughput X-ray spectroscopy service** of highest quality, accessible across different facilities and effective in responding to industry needs for advanced materials research.

The main objective of this meeting is to start defining the specifications of the service allowing a synergistic approach.

AGENDA

WEDNESDAY 23 rd SEPTEMBER 2026	
9:00 – 9:10	ALBA Welcome to AUTOSPEC WP7 consortium (Caterina Biscari)
9:10 – 9:40	AUTOSPEC objectives and scope Speakers: Anna Kroner, Ennio Capria, Alejandro Sánchez Grueso
9:40 – 10:40	Session 1: Facility Stakeholders' presentations Format: ~7 minutes per facility Key Topics: 1. Current State of the Art: Status and operational baseline across facility infrastructures 2. AUTOSPEC Objectives & Ambitions: • Sample preparation • Sample loading • Automation of data collection • Integration with data processing Speakers: 1. ELETTRA: Giovanni Agostini (online) 2. Helmholtz-Zentrum Berlin: Klaus Kiefer (online) 3. MAX IV: Magnus Larsson 4. SESAME: Messaoud Harfouche



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	5. DESY: Jefferson do Rosário 6. SOLARIS: TBC 7. XFEL: TBC
COFEE BREAK (funded by LEAPS-TECH through ALBA-CELLS)	
11:15 – 12:00	Session 2: Facility Stakeholders' presentations Format: ~12 minutes per facility Key Topics: 1. Advanced Workflows: Focus on sample preparation & handling, sample holders, exchange systems, and smart workflows 2. AUTOSPEC Alignment: Technical objectives and ambitions within the project framework Speakers: 1. ALBA: Laura Simonelli 2. ESRF: Kirill Lomachenko 3. Diamond: Diego Gianolio
12:00 – 13:15	Session 3: Industrial Stakeholders' presentations Key Topics: 1. Current activities and operational requirements 2. Alignment strategies to ensure effective service delivery for real-world researchers and applications Speakers - Industrial service providers (~15' each): 1. Finden: Stephen Price 2. LynXes: Zoltán Németh 3. Momentum transfer: TBC Speakers - Industrial users (~7 each): 4. Henkel: Kang Wei Chou 5. Johnson Matthey: Husn Islam
GROUP PHOTO	
LUNCH TIME (funded by LEAPS-TECH through ALBA-CELLS)	
14:15 – 14:45	Session 4: Presentation Wrap-up Speaker: Anastasia Molokova Focus: Summary of morning partner presentations, key challenges, and emerging opportunities
14:45 – 16:15	Session 5: Round table discussion Moderators: Anna Kroner and Ennio Capria Agenda and discussion themes: 1. State of the Art: Assessment of currently available tools, solutions, and infrastructure 2. Preliminary Specifications: Defining initial technical and operational requirements 3. Initial Action Plan: Setting priorities aligned with Work Package (WP) goals and available resources



	4. Risk Mitigation & Sustainability: Strategies to ensure tool maintainability, reproducibility, consistency, and cross-facility sustainability
16:15 – 17:00	Optional: visit of ALBA facility, specially X-ray spectroscopy BLs

START of the LEAPS-TECH project: 1 September 2026.

First deadlines:

- Month 3 (November 2026): Report of first meeting provided to EB (owner: ALBA, Diamond, ESRF)
- Month 6 (February 2027): Service specifications (Deliverable 7.1) (owner: ALBA)

