

KONICA MINOLTA BRNO

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R&D Strategy and Technology Manager



WE ARE
KONICA MINOLTA

Konica Minolta: facts and figures



7.8 Billion €  Consolidated net sales
March 2015, worldwide

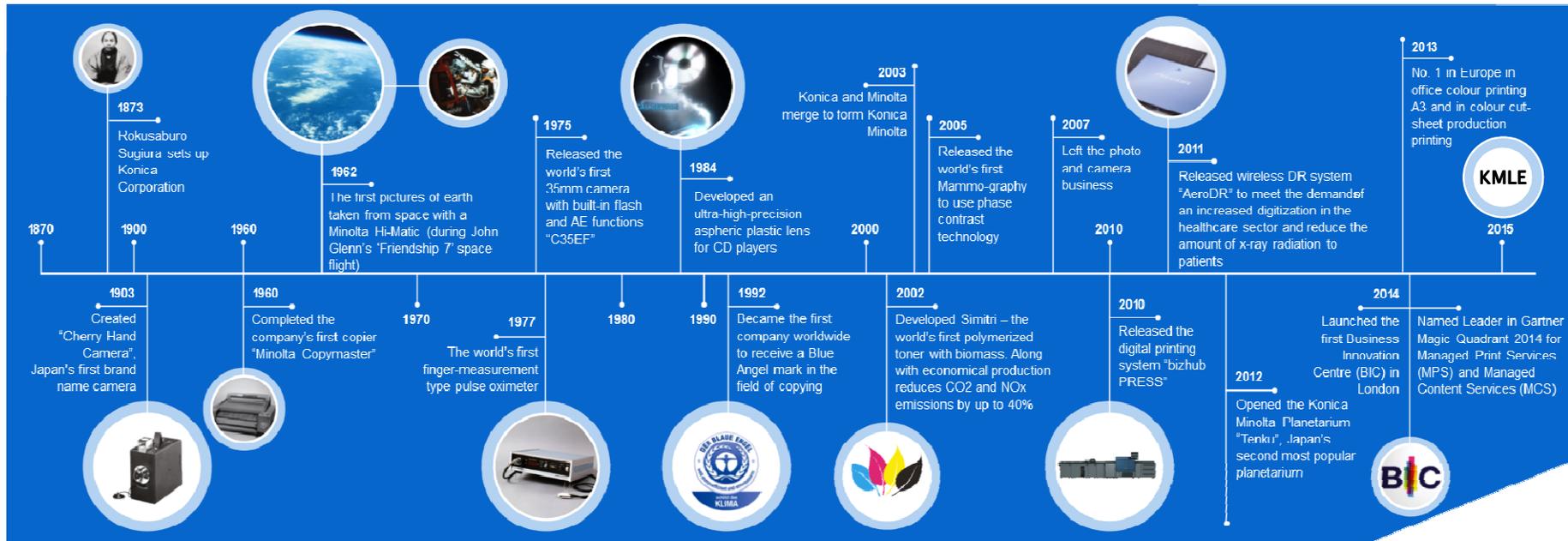
Approx. **9,500** employees throughout Europe to help our clients concentrate on what they do best: their business

Approx. **43,300** employees worldwide (March 2016)

Active in **173** countries throughout the world and in

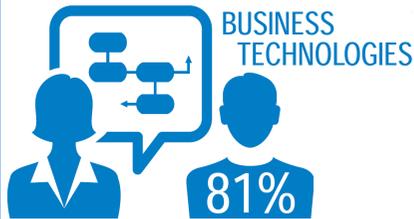
51 countries throughout Europe

Konica Minolta– a 140 year old start up dedicated to innovation



Business technologies

- European #1 in production printing, A3 office colour devices and inkjet textile printing
- 3,500+ customers optimize their processes with Konica Minolta's MPS



Healthcare

- Worldwide 1st digital X-ray mammography device to apply phase contrast technology
- Japanese #1 in cassette-type digital radiography systems



Industrial

- #1 in pick up lenses for Blu-Ray, DVD and CD players
- #2 in TAC films in display screens (e.g. mobile devices, TVs)
- #1 in colour measurement devices for TV displays

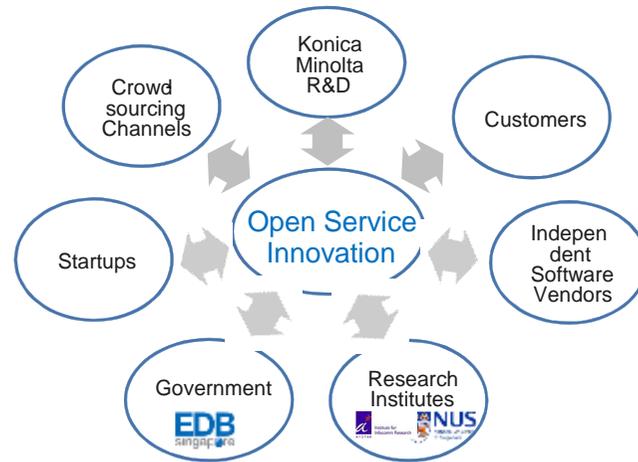
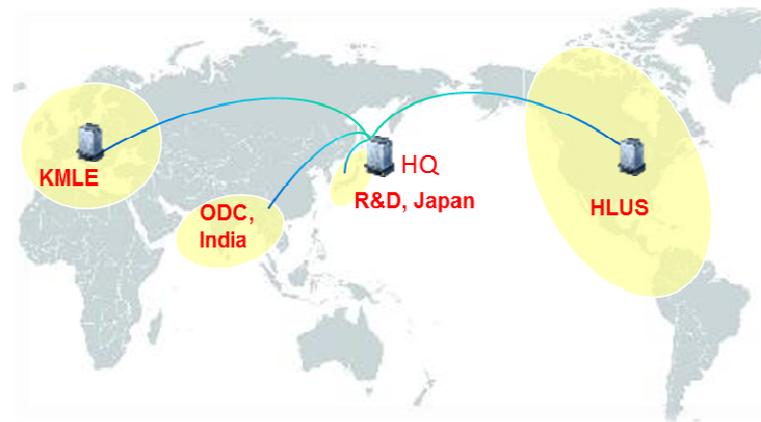
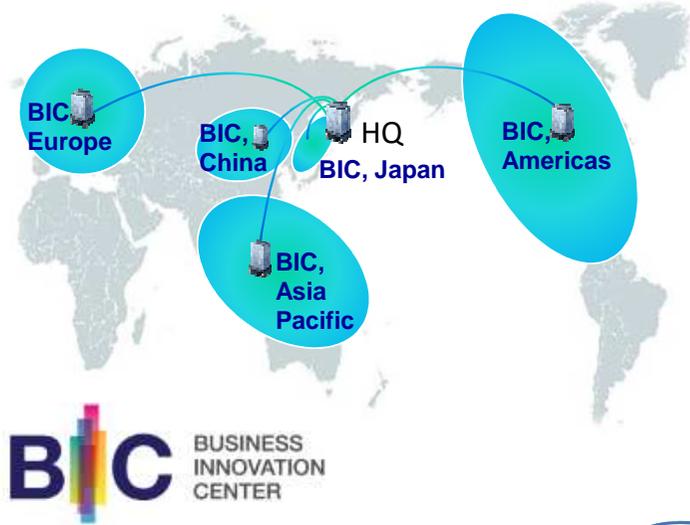


Other

- One of four suppliers for planetariums worldwide
- "Tenku" planetarium is #2 in Japan by visitors



R&D and Innovation in Konica Minolta **VERSION 1**



Research and Development Centres

- Corporate R&D Japan
- Konica Minolta Laboratory Europe
- Konica Minolta Laboratory US

KONICA MINOLTA BUSINESS INNOVATION CENTRES

North America



Europe



China



Japan



Asia Pacific



London (KMLE Headquarter)



Munich (coming soon in 2017)



Brno

KONICA MINOLTA LABORATORY EUROPE



Computer Vision, Augmented Reality and Wearables



Internet of Things, Networking and Sensors

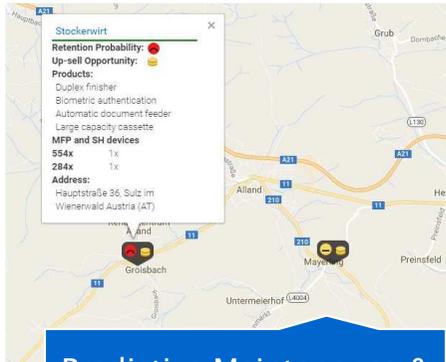


Semantic Technologies / AI / Data Analytics



Human Factors / Human Computer Interaction

Konica Minolta Laboratory Europe Projects' Portfolio



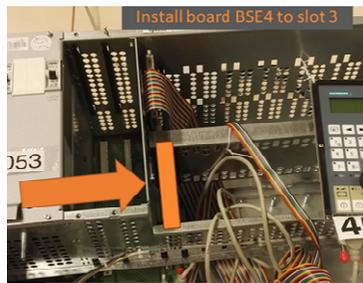
Predictive Maintenance & Business Analytics



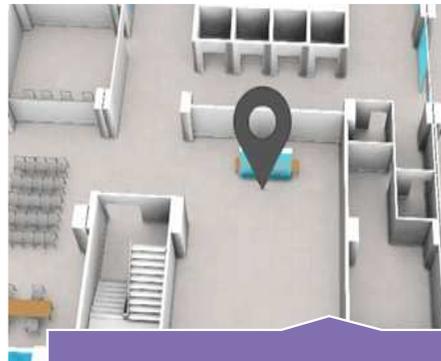
Smart Booking Room System



Next generation WCc for industrial applications



AR and WCc for industrial applications



Indoor localization



Cyber Physical Controls for business workflow



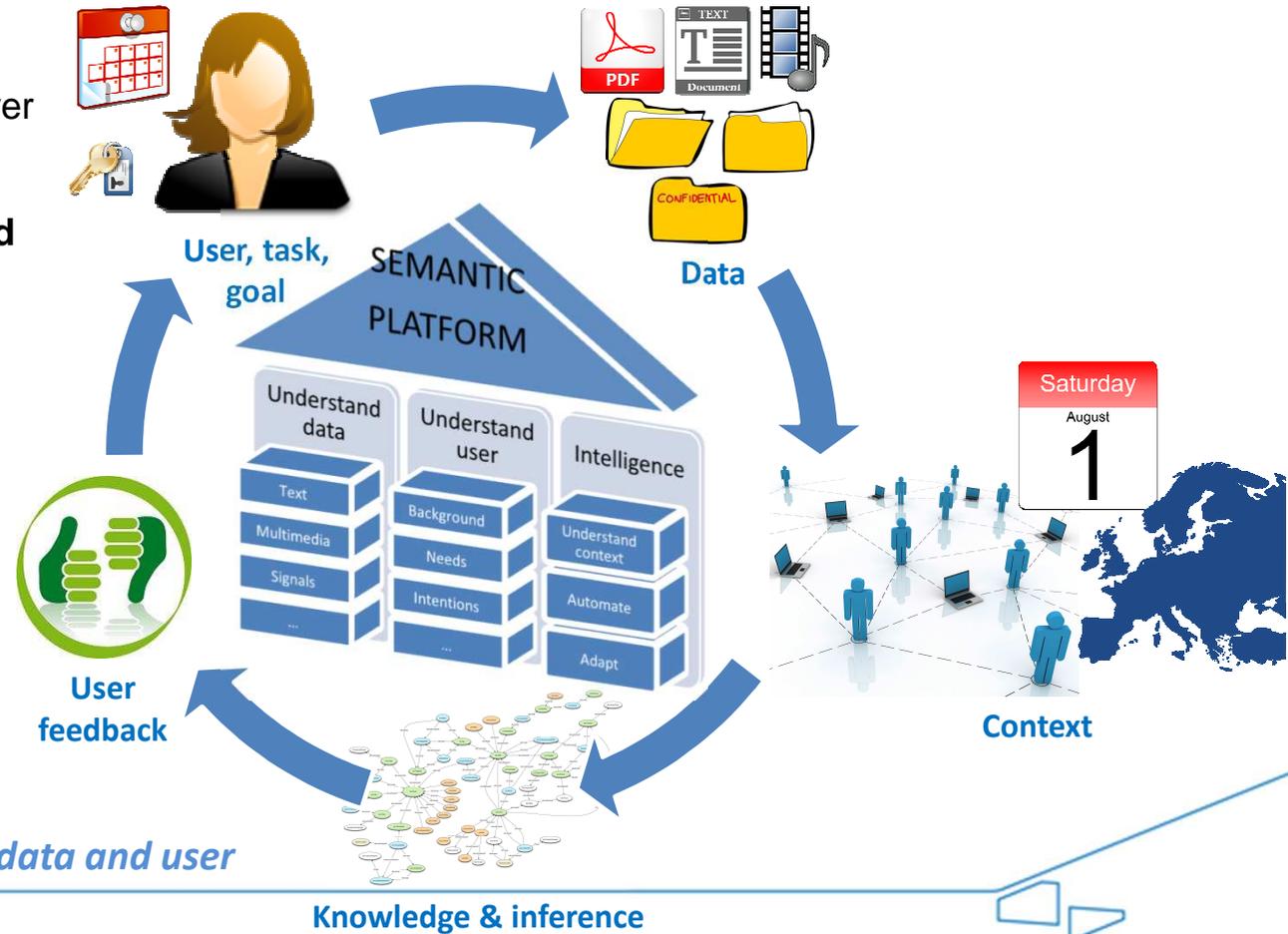
SMART DATA SYSTEMS & AI SEMANTIC PLATFORM OVERVIEW

SEMANTIC PLATFORM

– A software infrastructure enabling KM to deliver future complex Smart software products

Key technological areas to be researched and developed:

- Unstructured document processing – DEE + algorithmic extensions
 - **NLP technologies**
 - **Machine Learning - Multimedia processing**
- User understanding – Semantic SELF
 - **Knowledge integration and inference**
 - **Semantic Web**
- Automation and intelligence
 - **Artificial intelligence**
 - **Automatic planning**
 - **Machine learning**
 - **Context awareness and adaptation**



SMART DATA SYSTEMS = systems that understand data and user

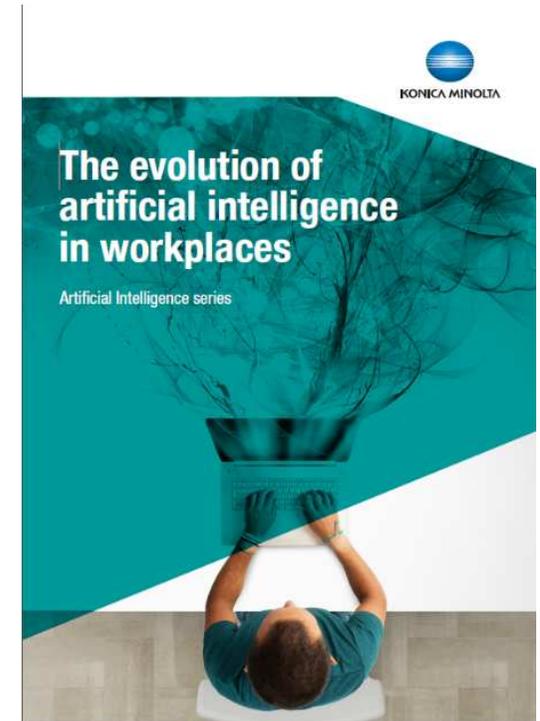
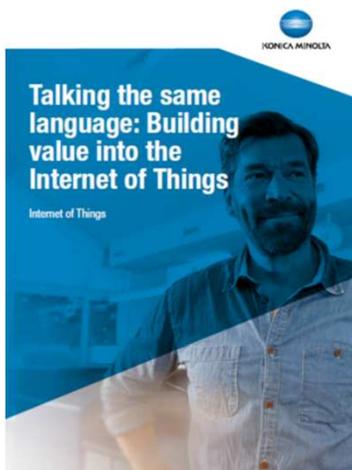
KM LABORATORY EUROPE WHITE PAPERS 2016



To demonstrate KMLE thought leadership and vision in R&D areas of interest

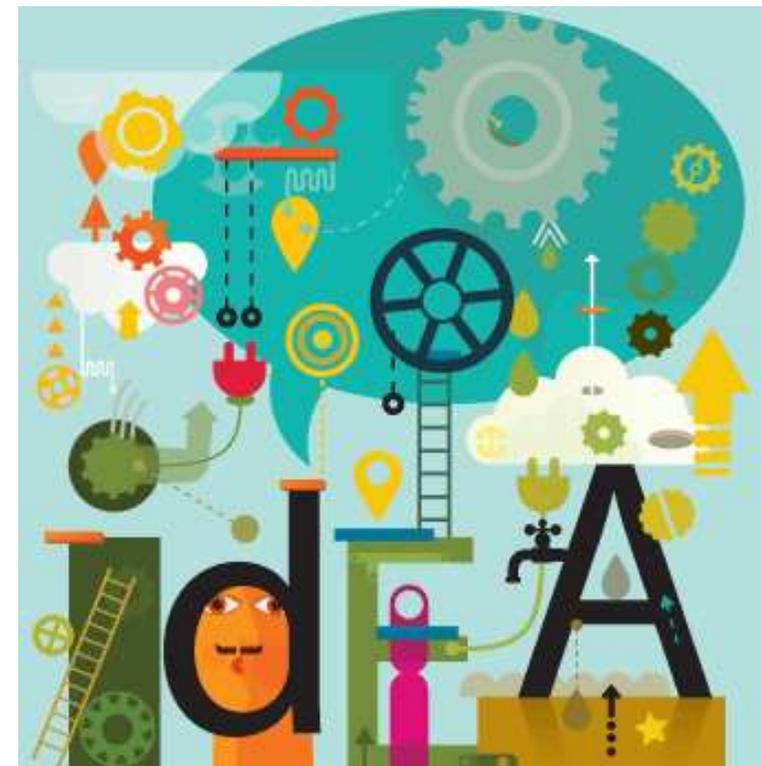
- ❖ IoT
- ❖ Smart systems and semantic technologies
- ❖ Augmented reality
- ❖ Artificial Intelligence – just published

<https://www.konicaminolta.eu/en/business-solutions/company/corporate-information/research-development.html>



WHAT WE OFFER

- **Broad variety of positions ranking from research and development to marketing, sales and customer support**
- **Sponsored PhD programs, trainings and part-time jobs with MUNI-FI**
- **Konica Minolta in Brno offers positions in**
 - Research of new technologies and concepts (scientists and engineers positions)
 - Development of new generation of product
 - Business Innovation and incubation management
 - ERP / ECM consultations and development
 - Marketing and sales of current and new generation of product
 - Product support and service

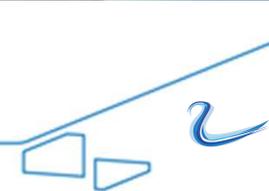


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R&D BRNO LABS – HOLANDSKA 7, BRNO



KONICA MINOLTA



Giving Shape to Ideas



KONICA MINOLTA

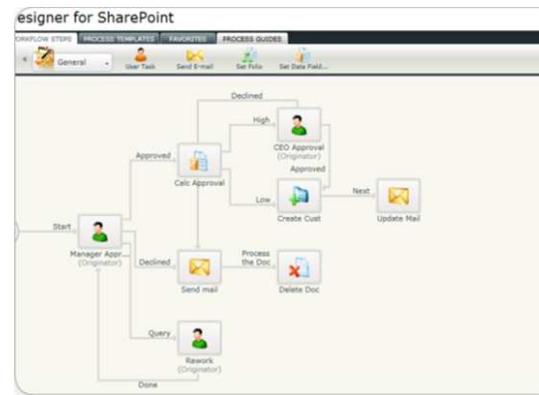
Giving Shape to Ideas



PRINTING IS NOT ENOUGH

WE MANAGE DOCUMENTS & DESIGN WORKFLOW FOR CUSTOMERS

- Constantly pushing the limits of HW/printers use: many intelligent apps (SafeQ, ABBY, ScanFlow, CS Remote Care, KOFAX, Page Scope Mobile...)
- We process documentation throughout the life cycle: scanning, capturing (highly accurate Optical Character Recognition), indexation, workflow, archiving
- We develop and supply customized solution: Document Management System and Business Process Management
- We help our customers accept the philosophy of paperless office
- We cooperate with BIC to bring new trends to Czech market
- Our goal is to make the vision real



KONICA MINOLTA



EUROPEAN BUSINESS IT APPLICATION COMPETENCE CENTRE



KONICA MINOLTA

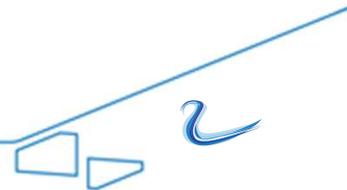
Our team enables KM business by providing IT consulting, projects, services and solutions for internal customers throughout whole Europe

Business IT applications in KM supported from Brno

- ERP (Navision, SAP)
- CRM
- ITSM (Remedy)
- BI/BW
- and web applications

Typical positions and/or actual vacancies:

- Business IT Applications Consultant
- Business IT Application Support
- Project Managers





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SW PRODUCT DEVELOPMENT

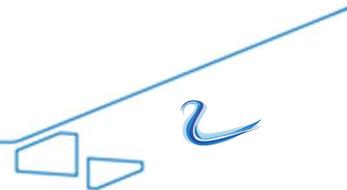
- ▀ Main focus is development of new Konica Minolta platform size products, advanced virtualization, complex deployment process, micro-service architecture, integration of 3rd party solutions
- ▀ Agile development in full stack SCRUM teams with contributing Scrum Masters

▀ Technologies:

- Backend technologies: Java EE, Spring, C#, .NET Core
- Frontend technologies: Angular2, REST
- Clean code policy, static code analysis (Sonar Cube), high unit test coverage
- Continuous Integration: Atlassian stack - Confluence, JIRA, Stash, Bamboo
- Quality Assurance: test automation, development of QA platform

▀ Typical positions and/or actual vacancies:

- Java, C#, Angular Developer
- SW QA Engineer
- Integration Engineer
- Project Coordinator



INTERNET OF THINGS, NETWORKING, SENSORS CYBER-PHYSICAL SYSTEMS FOR WORKPLACE AUTOMATION



KONICA MINOLTA

Implementing

Digital Workflow · Smart Workplace · Digital Manufacturing

through

Sensing · Tracking · Adjusting

People

- Workers
- Customers
- Patients

Devices

- Computers
- Machines
- Tools

Spaces

- Meeting rooms
- Work rooms
- Stockroom

by a combination of

Mechanical · Analog · Electromagnetical · Electrical · Digital Systems

to achieve

Efficiency · Quality · Empowerment · Health · Satisfaction

in

Small-Medium and Large Enterprises

