

Achievements and innovations in 2015

Utilities

Lower environmental impact

ABB commissioned the world's first gas-insulated switchgear with a new eco-efficient gas developed as an alternative to sulfur hexafluoride (SF₆). The new gas mixture, which has a global warming potential almost 100 percent lower than that of SF₆, was developed with 3M.

Software improves asset management

Ellipse Select is a new enterprise software solution that helps customers to manage their assets more effectively through the life cycle and make better operational decisions, boosting both their performance and productivity. The solution illustrates ABB's unique ability to facilitate the convergence of operational and information technologies.

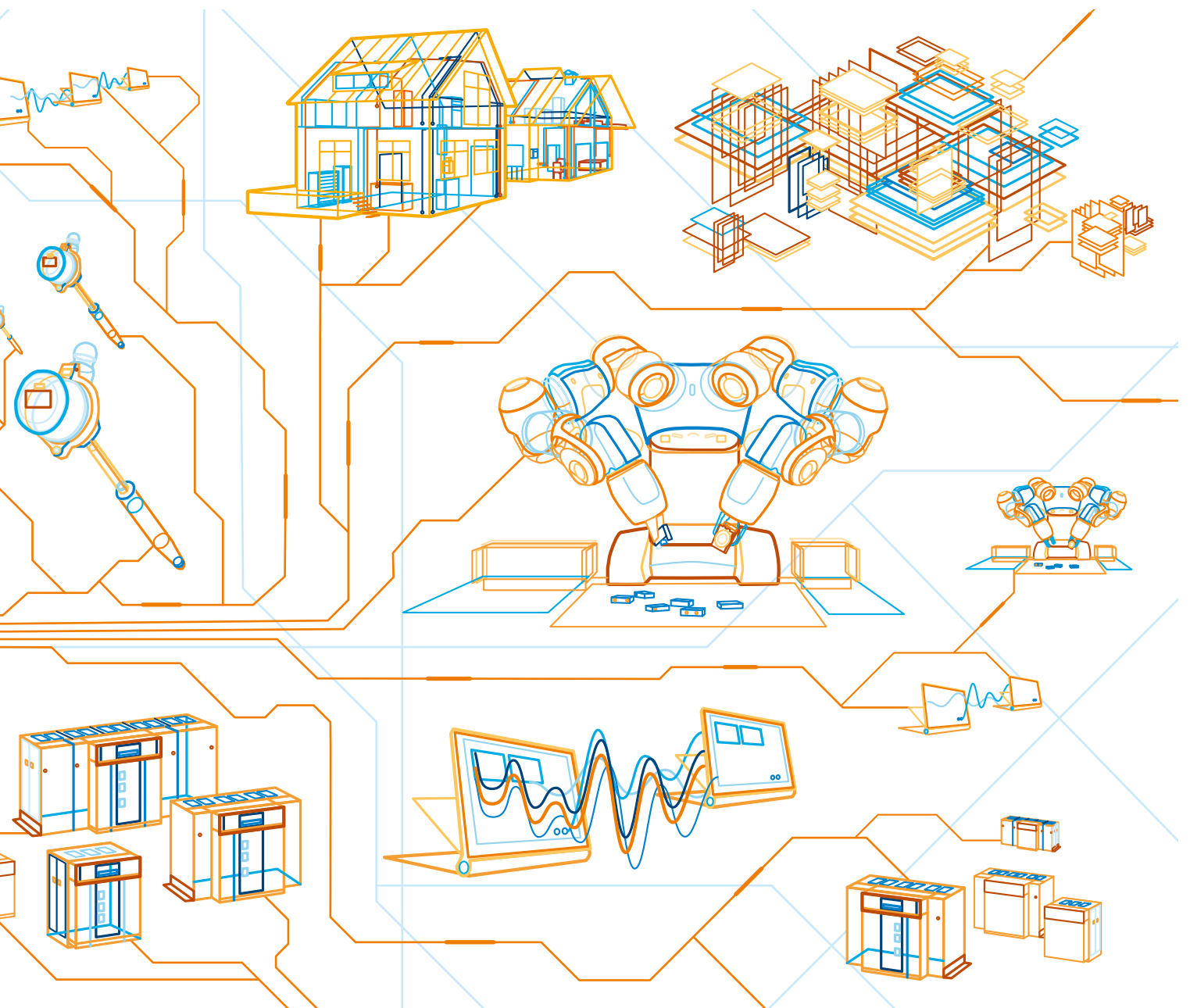
Industry

Mine of the future

ABB deployed its System 800xA automation platform to transform Boliden AB's Garpenberg lead, silver and zinc mine in central Sweden into one of the world's most efficient and productive mines. Autonomous processes stretching a kilometer underground are unified in a single system driving efficiency and productivity to the next level.

First truly collaborative robot

YuMi, the first truly collaborative robot, was introduced to the market at Hanover Fair. Designed for a new era in manufacturing, where robots and humans work side-by-side on the same tasks, YuMi is flexible and dexterous. It can be integrated into production lines without the need to redesign the space.



Transport

Automated fast charging for electric buses

A new automated fast charging system removes the main hurdles to the more widespread use of electric buses. With a typical charging time of 4-6 minutes, the system speeds up the charging process and is easily integrated in existing bus lines thanks to its automated rooftop connection.

Software for marine efficiency

ABB is collaborating with Dutch weather forecasting specialist, MeteoGroup, to equip 140 container ships from Maersk Line with advisory software to optimize routes, boost maritime safety and avoid conditions that could be harmful to the ship, its crew or its cargo.

Infrastructure

Voice-operated smart homes

ABB presented its voice-operated smart home automation system, ABB-free@home, at the IFA consumer electronics fair in Berlin. The system allows users to control over 60 smart-home automation functions, such as lighting, heating, blind control and door communication, with voice commands.