Machine intelligence addresses increasing network complexity

- Machine intelligence to take aim at increased network complexity associated with the introduction of 5G, IoT and industry digitalization

- Ericsson introduces AI technologies across its product and services portfolio to enable networks to self-optimize, improve efficiency, and deliver optimal user experiences

- Methodologies such as machine learning algorithms integrated at the edge enabling two times faster handover, resulting in better network performance

Ericsson (NASDAQ: ERIC) is today announcing a company-wide approach to centrally position machine intelligence across its entire organization and customer operations. This includes the introduction of artificial intelligence (AI) technologies that will enable networks to self-optimize, improve efficiency, and deliver optimal user experiences.

The complex reality of today's telecommunications systems will only accelerate further with the introduction of 5G, IoT and ongoing industry digitalization. Machine intelligence, using machine learning and other AI technologies, is vital to handling this complexity with more efficiency.

Machine Intelligence benefit examples:

- By implementing AI technologies, Ericsson halves the handover time between cells — resulting in fewer dropped calls and shorter configuration and maintenance time for service providers. Similarly, machine learning algorithms can predict traffic patterns and dynamically put cells into dormant mode without impacting user experience — achieving energy efficiency of up to 10 percent.

- By applying machine intelligence to prevent future malfunctions, Ericsson can provide actionable recommendations to the Network Operation Center personnel thus reducing dispatches of services technicians by up to 30 percent.

- Self-learning agents are applied in virtualized core (vMME) for world first VNF Autoscaling using deep reinforcement learning which is improving system performance with 25% compared to predefined thresholds

- Expert Analytics is now equipped with machine intelligence pattern recognition, thru deep-learning enabling detection and optimization, making it possible to achieve up to 20 percent fewer network quality calls to customer care

Erik Ekudden, CTO, Ericsson, says: "With automation and domain specific AI, the intelligence built into the network platform provides superior performance while optimizing use of scarce radio network resources. We are developing Machine Intelligence solutions across our product portfolio and services to provide the highest performance and most intuitive and easy to use network operations for our customers."

Ericsson Research has been strengthening competence in machine learning and AI since 2007 and the company now holds hundreds of patents in this area. These technologies include everything from basic machine learning to more advanced Deep Learning and Reinforcement Learning techniques, as well as chatbot-like functionality with NLP and image recognition capabilities.

Learn more about our unique approach to machine intelligence and how technologies such as machine learning and artificial intelligence are driving systems for automation and network evolution.

NOTES TO EDITORS

Read more on Network Intelligence

5G network programmability for mission-critical applications

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ERICSSON AT MWC

The do zone at Mobile World Congress 2018 is where Ericsson is showcasing the powerful engagement, value and growth that comes with innovation in 5G, IoT and digital operations. With our live technology demonstrations and customer collaborations, we're rolling up our sleeves and digging in. We're showing, not just saying, why emerging technologies are essential to maximize business potential. Join us live and online at www.ericsson.com/mwc