## Business and Innovation Areas

<table>
<thead>
<tr>
<th>Business Area</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Digitalisation</strong></td>
<td>Digitalisation enables great change. As society faces some of its greatest challenges ever, we’ve also never had greater awareness and better opportunities to manage them. We advance data-driven innovation in both industry and the public sector. We combine expertise in AI, cybersecurity, IoT and advanced sensors with service development and user understanding.</td>
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<tr>
<td><strong>Energy and Bio-Based Economy</strong></td>
<td>Energy system transformation and a bio-based economy are key for a sustainable transition of both society and industry. We bring together expertise in tomorrow’s energy systems, bioeconomy, industrial energy systems, systems analysis, resource efficiency and service design. In collaboration with our customers, we develop smart power grids, renewable energy sources and biofuels along with new business models for tomorrow’s energy supply and industry.</td>
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<tr>
<td><strong>Sustainable Cities and Communities</strong></td>
<td>The cities of tomorrow must be smart, integrated, circular and equipped for a changed climate. We bring together expertise and testbeds in systems innovation, IoT, construction technologies, new energy systems and sustainable infrastructure along with water and sewerage systems and mobility. In collaboration with our customers and partners, we develop solutions that contribute to robust, smart and sustainable cities and communities.</td>
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<tr>
<td><strong>Health and Life Science</strong></td>
<td>Society’s costs for healthcare and mental illness are rising sharply. At the same time, Sweden aims to retain its leading position in drug development and medical technology. We bring together expertise and testbeds in everything from social impact bonds and welfare technologies to pharmaceutical production and infection control. The goal is healthier people and a competitive Swedish life science sector.</td>
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<tr>
<td><strong>Material Transformation</strong></td>
<td>Of all the world’s materials, today only 8.6 per cent are circular. At the same time, CO2 emissions must be reduced significantly. As a result, Sweden needs to take a leading position in the development of value-added and circular materials. We bring together expertise and testbeds in circular business models, lifecycle analysis, materials development, materials ecosystems and the materials production of tomorrow.</td>
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<tr>
<td><strong>Mobility</strong></td>
<td>Climate change and urbanisation pose new requirements for sustainable and safe transport of both passengers and freight. As vehicles become connected, electrified, self-driving and shared, business models and user behaviours will change right along with them. We bring together expertise and testbeds in everything from mobility systems and ICT to electrification and manufacturing. We also pursue policy and system issues for sustainable mobility.</td>
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</tbody>
</table>
The five divisions

**Bioeconomy and Health**
The Bioeconomy and Health division has cutting edge expertise in process engineering, drug development and material and surface design. Our work involves biorefinery value chains and products and processes for agriculture, food, pulp, paper and packaging.

**Digital Systems**
The Digital Systems division operates in electronics, information and communications technology, software development, mobility, system analysis and interaction design. We provide solutions for all sectors, especially in areas involving digitalisation.

**Materials and Production**
The Materials and Production division, specialises in corrosion, chemistry, biology, medical technology and mechanics. We operate in product, production and material development for textile, polymer, composite and metal.

**Built Environment**
Within the division Built Environment and together with our customers, we build the sustainable society through conversion to resource efficiency, climate neutrality and a robust infrastructure. We have expertise in energy, infrastructure, certification, construction and real estate as well as innovation management and system conversion. We work with materials such as wood, glass, cement and concrete.

**Safety and Transport**
The Safety and Transport division, specialises in reliability, risk and safety in relation to vehicles, the maritime industry, the electrification of transport system and fires. The division has expertise in measurement technology, calibration, inspection and verification.
<table>
<thead>
<tr>
<th>Department/Unit</th>
<th>Smart Hardware</th>
<th>Industrial Systems</th>
<th>Mobility and Systems</th>
<th>Computer Science</th>
<th>Prototyping Society</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensors and Materials</td>
<td>Human-Centred Digitalisation</td>
<td>Digital Innovation</td>
<td>Connected Intelligence</td>
<td>Human Experience</td>
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<tr>
<td>Sensor Systems</td>
<td>Automation and Efficiency</td>
<td>Mobility in Transformation</td>
<td>Computer Systems</td>
<td>Technologies for interaction</td>
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<tr>
<td>System Integration</td>
<td>Digital Platforms</td>
<td>Humanized Autonomy</td>
<td>Data Analysis</td>
<td>Societal Transformation</td>
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<tr>
<td>Bioelectronics and Organic Electronics</td>
<td>Autonomous Systems</td>
<td>Systems Engineering</td>
<td>Intelligent Systems</td>
<td>Life-Long Learning</td>
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<tr>
<td>Printed Electronics</td>
<td>Industrialisation</td>
<td>Electromobility</td>
<td>ICE Data Center</td>
<td>Regional Transformation</td>
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<tr>
<td>Nanoteknik</td>
<td>Networks</td>
<td>Innovation Orchestration</td>
<td>Cyber Security</td>
<td>Digital Health</td>
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<tr>
<td>Fiberoptik och fotonik</td>
<td>Applied Digitalisation</td>
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<td></td>
<td>Connected Society</td>
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</tbody>
</table>
Materials and Production departments and units

Senior Vice President

Avd

- Polymers, Fibres and Composites
  - Process Simulation and Manufacturing Technology
  - Composite Materials and Product Development
  - Polymer Products and Service Life Technology
  - Polymeric Materials and Sustainability
  - Materials, Process and Recycling
  - Structural Analysis and Modelling
  - Fibre Development

- Manufacturing Processes
  - Additive Manufacturing
  - Component Casting
  - Component Manufacturing
  - Multi-materials
  - Heat Treatment and Surface Technology

- Methodology Textiles and Medical Technology
  - Environment and Sustainable Chemistry
  - Production and Work Environment
  - Product Development and SME Support
  - Textile Testing, Certification and Analysis
  - Medical Device Evaluation

- Corrosion
  - Product Durability
  - Vehicles and Surface Protection
  - Infrastructure and Energy
  - IC Brest (Frankrike)
  - IC Saint Etienne (Frankrike)

- Chemistry and Applied Mechanics
  - Machine Safety
  - Building and Infrastructure
  - Mechanical Research and Innovation
  - Mechanical Reliability
  - Transport and Product Safety
  - Chemical Problem Solving
  - Chemical Product Safety