

# Exhibition at RISE SICS Open House 2017



Details at [www.sics.se](http://www.sics.se)

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## Demos and posters at RISE SICS Open House 2017

### Mobility, traffic

1. Situation-based Integration Testing of Automotive Systems using Guarded Assertions (SAGA)
2. Next Generation Electrical Architecture (NGEA)
3. MOPED
4. SMILE
5. Understanding Driver's Subjective Experiences
6. Connected Energy
7. BADA Traffic Safety: Interactive Exploration and Visualization of Traffic Accident Data
8. BADA Traffic Hazard Warning: Real-Time Streaming Analytics for Classification of Hazard Events

### Railroad

9. Railway resource optimization
10. CO2REOPT

### Networks

11. Unified Control of Heterogeneous Networks
12. FELICIA: Feasibility study of latency-critical connected vehicle applications in MONROE
13. GreenIoT - An open environmental sensing system for public bodies
14. READY - Research Environment for Advancing Low Latency Internet
15. Network Intelligence @ RISE SICS
16. Controller plane management of programmable networks

### Smart Home

17. CAEsAR - Making the RPL Routing Protocol Context-Aware
18. Sustainable Open Smart Home Solutions

### Automation, Software Testing

19. MegaM@Rt 2
20. IMPRINT
21. PiiATest
22. Software Testing Group at RISE SICS Västerås
23. TOCSYC - Testing of Critical System Characteristics
24. PROMPT - web-based courses in software engineering for industry
25. Command
26. FUDIPO - Future Directions of Production Planning and Optimized Energy - and Process Industries
27. ORION

28. STREAM - The stream of information for smart and efficient automation
29. RIS - intelligent Risk Identification System for safer mines
30. OpenModelica - A Free Modeling and Simulation Environment
31. Co-creation, open innovation and intangible assets
32. PIMM - Pilot for Industrial Mobile Communication in Mining
33. ToolTracker - digital verktygstracking i verkstadsmiljö

### Data Science

34. Accountable Data Control and Governance using Blockchains
35. Unison: Optimization Technology for Optimizing Compilers
36. Scheduling Handbollsligan with constraint programming
37. Learning Capacity and Feasibility Regions for Telecom Cloud Services
38. The Black Arrow programmable accelerator
39. Online ElastMan: Self-trained Proactive Elasticity Manager for Cloud-Based Storage Services
40. SpanEdge: Towards Unifying Stream Processing over Central and Near the Edge Data Centers
41. HopsWorks Jupyter Notebooks
42. Dela - Sharing Large Datasets between Hadoop Clusters
43. Hopsworks - Hadoop for Humans
44. HopsFS - Breaking the 1m ops/sec barrier in Hadoop
45. Size Matters. Small files in HopsFS.
46. COLA - Cloud Orchestration and the Level of Application
47. 5G-ENSURE
48. 5GEnsure - Group-based authentication
49. Smart Flows
50. RISE Data Science Initiative
51. Data for Innovation
52. Streamline - analytics for data at rest and in motion
53. Gelly-Stream: Intuitive Single-Pass and Iterative Graph Processing on Unbounded Data
54. Big Data Analytics
55. Deep Neural Nets and Time Series
56. Societal data analytics explored: Finding jobs in public data
57. PaaSword - A Holistic Data Privacy and Security by Design Platform-as-a Service Framework

### Security

58. SICS Security Lab
59. Platform Security at RISE SICS: how to keep critical software separated from potentially malicious environments
60. Eurostars SecureIoT: Certificate-based Security for Resource-constrained IoT
61. Highly-Scalable Key Management for Group Communication in the IoT
62. Secure Bootstrapping and Key Distribution over CoAP/LWM2M
63. Adaptive Counteraction Against Denial of Service Attack
64. OSCOAP - Object Security for Constrained Devices and IoT

65. Multicast OSCOAP - Object Security for Group Communication in the IoT

### Internet of Things

66. Sparrow - IoT Device Development made Easy!
67. Smart Condition Assessment, Surveillance and Management of Critical Bridges
68. Nobel Grid: smart home demand response
69. IoT Standards: LWM2M Explained
70. OpenThread vs. Contiki IPv6: An Experimental Evaluation
71. Intra-body Communication and Sensing
72. Do LoRa Low-Power Wide-Area Networks Scale?
73. Communicating hundreds of meters at microwatts of power consumption

### UAV Competition

74. Dronecenter Sweden - Testbed for Autonomous Systems in Västervik.  
**Come and try flying a drone!**

### Future Living

75. CityFiction: A vision of Stockholm in 2040
76. Engaging Privacy
77. Sustainability at SICS

### eHealth

78. A Secure IoT Architecture for E-Healthcare
79. Stockholm digital care
80. KOL 3 - vård av kroniskt sjuka på distans
81. ENSAFE
82. Personalized digital self-management services for cognitive assessment and rehabilitation
83. Diginclude
84. Dementia Risk Tool Application

### Interaction Design

85. Digitalization of Fashion-Design Education
86. Soma Mat & Breathing Light
87. SomaVest
88. Presenting the Interaction Design group at CSL

### Virtual Reality and Augmented Reality in industry

89. HANDCODE - VR training in processing industry
90. INCODE
91. Holographic