Deliverable – D5.1 Web Site Launch
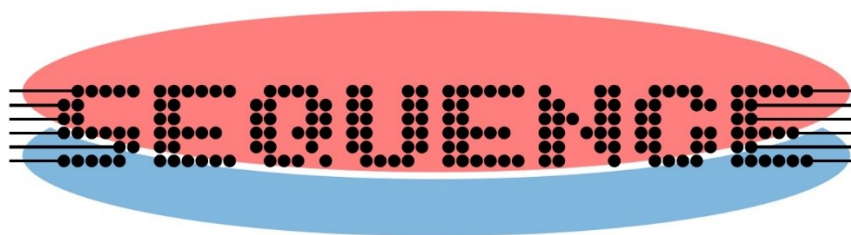
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Project number	871764
Project title	Cryogenic 3D Nanoelectronics (Sense and Readout Electronics Cryogenically Integrated for QUantum ENhanced Computation and Evolving Communication)

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1.0	2020-03-16	Lars-Erik Wernersson	Project Coordinator

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Contents

1   Introduction

This document was developed as part of the **SEQUENCE –** Cryogenic 3D Nanoelectronics (Sense and Readout Electronics Cryogenically Integrated for QUantun ENhanced Computation and Evolving Communication) project funded by the European Union Horizon 2020 Framework Programme (H2020-ICT-2019-2) under the grant agreement no. 871764.

> *The overall objective of SEQUENCE is to make use of Unconventional Nanoelectronics to develop cryogenic electronics and demonstrate their usability and effectiveness for quantum computing systems.*

This document corresponds to the Web site launch the SEQUENCE project, which forms Deliverable 5.1 (D5.1) of Work Package 5 (WP5) as described in the Grant Agreement Description of Action of the project.

SEQUENCE Web site

Lund University through the Project Office made available and continues to maintain a web site devoted to the SEQUENCE project.

> ## www.SEQUENCE-h2020.eu

The link was chosen in order to explicitly refer to the fact that SEQUENCE is an EU funded project, and more specifically a Horizon 2020 Research and Innovation Action.

Web site structure

Public area / open domain with open access to the wide public were information about the project is shared and communicated.

The following pages are included:

- **Home page** - A short summary and basic project facts are included in the first page as well as the SEQUENCE logo and the EU logo with reference to the EU funding and Grant Agreement. News, Events and publications scroll already in the main page and are kept in archive in relevant pages.

- **About SEQUENCE** - Short description of the SEQUENCE objectives and the project organization.

- **Partners** - List of partners with their logos, links to the organisation and department and a short description of the research team.

- **Project Results** - Publications, conference proceedings and articles and other scientific open information on the research undertaken.

- **News and Events** - Archive of SEQUENCE news and project events including those that SEQUENCE is participating to (e.g. scientific conferences where results are presented).

- **Contact** - Contact information of the Project Coordinator and Operational Manager.

This public open domain forms important part of the SEQUENCE External Communication Plan (D5.2). The external communication is achieved through the continuous posting of project related information, continuous publication of scientific articles, publication of articles about the process and its activities in mainstream media, as well as attendance in different conferences and sector related seminars in order to increase the outreach of the project.

Restricted area / closed domain for the internal use of the project (collaboration tool).

A login function is included in the home page and access is protected via username and password. Access is only available to the project participants and the EU project officer.

This restricted area is the project back-office and document repository, as well as a communication and collaboration tool for project participants. It is used as a central information source, where important project documentation and information will be accessible. It is thus the hub for all project documents, address lists, event coordination and for the overall management plan documents of the project flow developed and maintained by WP7, and any modifications are duly recorded and adapted as needed.

The solution is based on the BOX software tool.

The SEQUENCE back-office forms major part of the Internal Communication Plan (D6.5).

Quality

To secure the quality of the web platform the web site maintenance work includes:

- Continuous update to represent the project, presenting news and results from SEQUENCE.
- Facilitation of the communication with the general audiences through press releases, flyers and videos presented on the web site.
- Continuous publication of articles in relevant journals via input from the WPLs.
- The overall aim of the management group in relation to project dissemination is to ensure the maximum visibility of the project through innovation and impact, to ensure the intellectual property is secured, and to ensure different target communities are aware of the work and accomplishments of SEQUENCE as a project supported by the European Commission. All abstracts for conferences and manuscripts for journal publication will be submitted via web portal in a timely manner to the management committee for this type of dissemination clearance and approval.
- Updated information on participation in related conferences and relevant journals.
- Updated information on WP workshops presenting the results of the project to relevant local stakeholders and interest groups.

Impact

The SEQUENCE web site development is a result of the projects contractual agreement on measures to maximise impact and follows the timeline in Table 1.

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	Year 1, M1-12 *Show presence*	Year 2, M13-24 *Show technology*	Year 3, M25-36 *Show technology*	Post-SEQUENCE *Continue exploitation*
Communication to the general audience	Web-page established, Press-release, flyers, and video	Maintenance and update of web-page, incl. communication of results, meetings, workshops, news and highlights via LinkedIn and Twitter		Web-page continuously running with information material, incl. papers, IP

Table 1 – SEQUENCE web site timeline

The web site is physically located at a ULUND server ensuring security, privacy and confidentiality. The web site will be available during the whole project period and care will be put in the future information availability through the SEQUENCE dissemination strategy.

The SEQUENCE web site was officially launched on 1 February 2020. Screen shots of parts of the home page of the SEQUENCE web site during launch are seen below.
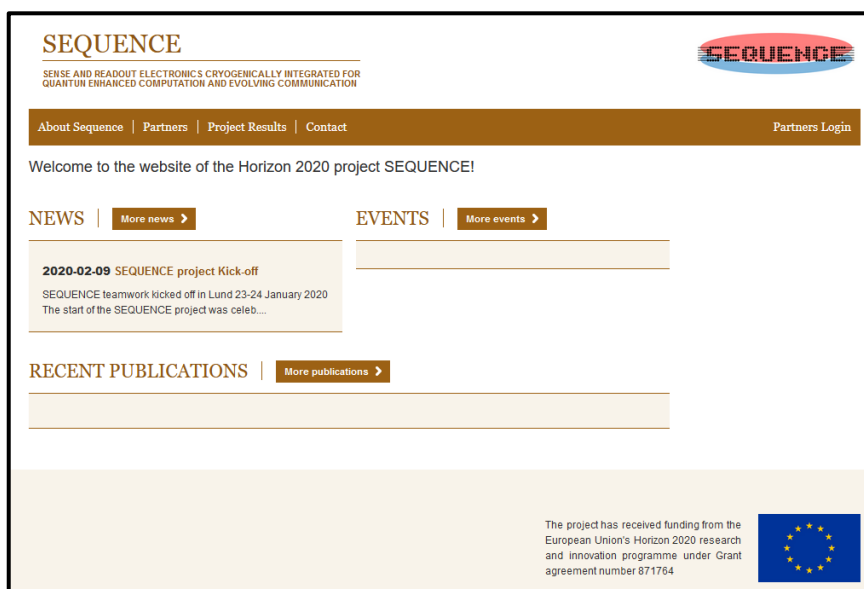
SEQUENCE teamwork kicked off in Lund 23-24 January 2020

The start of the SEQUENCE project was celebrated by a halfday open workshop on "**Future of Computing: Quantum Technologies**" with the two invited speakers Martin Leijnse (Lund University) and Jonas Bylander (Chalmers) and four contributions from different partners in sequence. It was a very succesful event with 40 attendees.

Directly after we had the 1st consortium meeting (1.5 days) with many interesting discussions on the future of the project.

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SEQUENCE

SENSE AND READOUT ELECTRONICS CRYOGENICALLY INTEGRATED FOR
QUANTUM ENHANCED COMPUTATION AND EVOLVING COMMUNICATION

About Sequence | Partners | Project Results | Contact | Partners Login

Sequence h2020 > Partners

Partners

Department of Electrical and Information Technology
LUND UNIVERSITY
Sweden

About the Nanoelectronics Group
The Nanoelectronics group focus on science and technology for nanoelectronics with a particular emphasis on applications in Information and Communication Technology (ICT). III-V MOSFETs in various geometries are studied targeting optimized device layouts to be used in future applications in radio communication, radar, and imaging. The work combines basic materials studies with device technology development performed in cross-disciplinary collaborations. Nanotechnology is used for integration of III-V materials on Si substrates, and the physics of tunneling is employed to implement novel device functionality. Key applications include transceiver technologies aiming at high bit-rates and low-power operation in the millimetre-wave frequency range.

Fraunhofer Institute for Applied Solid State Physics
Germany
The Fraunhofer Institute for Applied Solid-State Physics IAF is a leading research and technology center for compound semiconductors and their application in microelectronics and optoelectronics. Fraunhofer IAF is a gateway between state-of-the-art research and industrial implementation of novel micro- and nanoelectronic circuits. The IAF focuses on III-V compound semiconductors and their heterostructures for advanced transistors and optoelectronic devices. Fraunhofer IAF performed its expertise epitaxial growth in atomic dimensions and device structures, chip design, technology and the manufacturing of devices and modules. The Institute was founded in 1957 and now has a total staff of 280 scientists, engineers and technicians with an annual budget of 28 million Euros.

The Institute of Microelectronics, Electromagnetism and Photonics
The Institute of Microelectronics, Electromagnetism and Photonics (IMEP/INPG), with staff of 140 persons, is one of France's top micro and nanotechnology research academic laboratories, particularly for