

The logo for Aeneas features the word "Aeneas" in a white, sans-serif font. The letter "e" is highlighted in a vibrant green color and is stylized with a circular motion line around it. The background of the slide is a gradient from dark blue on the left to teal on the right, overlaid with a network of white lines and dots of varying sizes, suggesting a complex scientific or organizational structure.

# Aeneas

Scientific Council at glance

Enrico Sangiorgi

EF ECS 2021 – November 25, 2021

# Who we are

- Established in 2016
- 17 members
- 17 Institutions
- 12 Countries

# From Physics and Materials ....



Jouni Ahopelto

VTT, **Finland**

Nanoelectronics and  
beyond CMOS approaches



Francis Balestra

Grenoble INP/CNRS, **France**

Nanoelectronics materials  
and devices



Patrick Bressler

Fraunhofer Microelectronics Group, **Germany**

Solid state, surface and semiconductor physics,  
electronic structure and related material properties



Georgios Fagas

Tyndall Institute, **Ireland**

Emerging materials and devices  
for CMOS and beyond



Clivia M. Sotomayor Torres

ICN2, **Spain**

Multi-state variables, solid state physics, nanophotonics,  
phononics and nanofabrication

# ... to Devices and Technology ...



Daniel Donoval

University of Bratislava, **Slovakia**

Characterization of semiconductor devices supported by modeling and simulation



Péter Fürjes

MFA Hungarian Academy of Science, **Hungary**

MEMS, BioMEMS, micro- and nanofluidics, medical applications



Adrian Ionescu

EPFL, **Switzerland**



Mikael Östling

KTH, **Sweden**

Semiconductor device technology for nanoscaling, WBG power devices and emerging materials integration



Enrico Sangiorgi

University of Bologna, **Italy**

Modeling and characterization of semiconductor devices for power and health applications



Anne Van Den Bosch

IMEC, **Belgium**

Semiconductor technology, analog design and reliability

# ...and Systems and Systems of Systems



Danilo Demarchi

Politecnico Torino, **Italy**

Micro & nano-electronic systems for health and agrifood



Said Hamdioui

TU Delft, **The Netherlands**

Emerging computing paradigms  
Hardware dependability



Ahmed Jerraya

CEA-LETI, **France**

Cyber physical systems and computing architecture



Paul Merkus

TU Eindhoven, **The Netherlands**

System design and verification for industrial and healthcare applications



Michael Salter

RISE Research Institute of Sweden, **Sweden**

RF/Analog IC design and packaging, semiconductor materials, processes and components for RF and power electronics



Holger Schmidt

Infineon, **Germany**

Semiconductor solutions for energy efficiency, mobility and IoT

# Mission

- The mission of the AENEAS Scientific Council is to advise the AENEAS Management Committee in all matters related to science and medium- to long-term developments in programmes and projects relevant for the AENEAS Association.
- Examples: Contribution to the LTV Chapter of the SRIA; medium- and long-term research priorities in the AENEAS Agenda; assess the innovative impact of the programmes governed by AENEAS (e.g. PENTA)

# **Example of past activity Assessment by the Scientific Council of the scientific content of the PENTA programme**

- In 2020 the SC was requested to conduct a technical assessment of the scientific relevance of the PENTA programme, based on the initial FPP after the initial Change Request report of running and labelled projects
- 20 projects reviewed by at least three reviewers
- Final report highlighting start and final TRL, University and RTO involvement, education programs, etc.

The image features a background with a teal-to-blue gradient. On the left and right sides, there are abstract network diagrams consisting of small circular nodes connected by thin white lines. In the center, the word "Aeneas" is written in a white, sans-serif font. The letter "e" is highlighted in a vibrant green color and is partially overlaid by a thin, curved green line that loops around it.

Aeneas