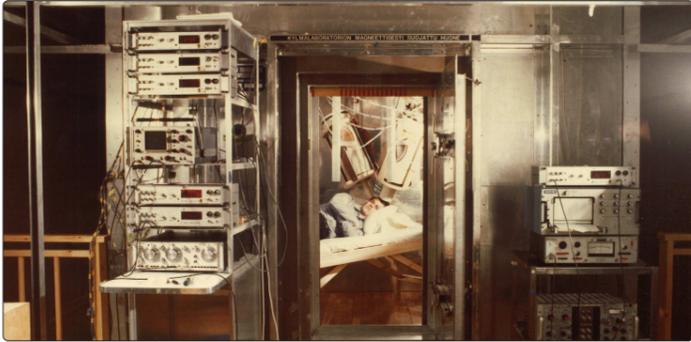




Open-access research facilities for magnetoencephalography

First magnetically shielded room

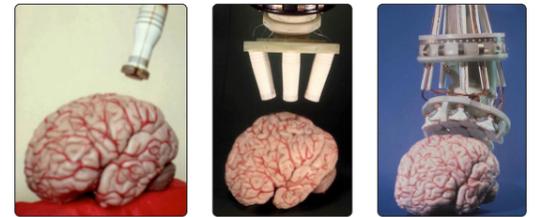
Magnetically shielded room by VTT was installed at Otakaari 3 to facilitate magnetoencephalographic (MEG) and magnetocardiographic (MCG) recordings at the Low Temperature Laboratory.



1971

Development of multi-channel magnetometers

The pioneering MEG research work at the Low Temperature Laboratory resulted in 4-, 7-, and 24-channel magnetometers in the 1980's. These instruments were used in several pioneering MEG studies.



1983
1986
1989

First whole-head MEG

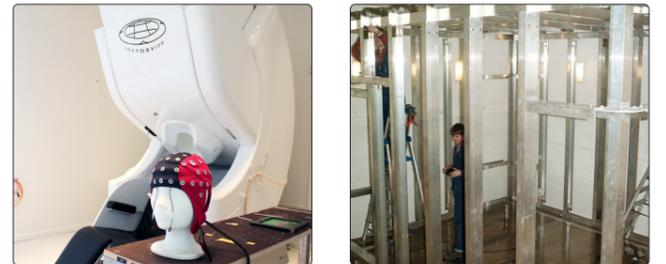
The very first whole-head MEG device was built by the academic spin-off company Neuromag Oy at the Low Temperature Laboratory. The MEG device housed 122 gradiometers and was used in several pioneering MEG studies.



1992

New MEG device and magnetically shielded room

A larger magnetically shielded room by Euroshield Oy was installed at Otakaari 3 to accommodate the state-of-the-art Neuromag Vectorview MEG device by Neuromag Oy. The MEG device housed 306 channels comprising of 102 magnetometers and 204 gradiometers.



1998

New 3-layer magnetically shielded room

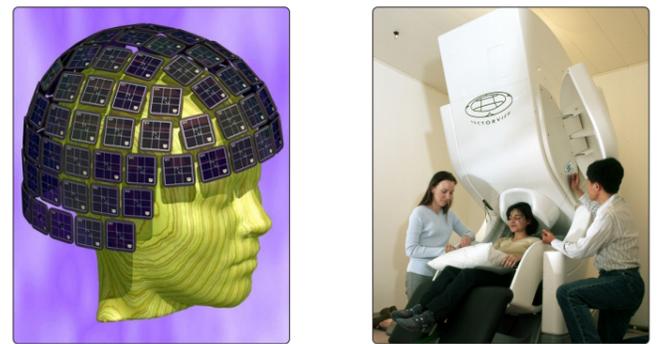
The new heavy-duty 3-layer magnetically shielded room by Imedco AG was installed at the new MEG Core in Puumiehenkuja 2. At the same time, the Low Temperature moved to the same, renovated premises.



2008

Elekta Neuromag upgrade

306-ch MEG device, Neuromag Vectorview, with magnetometers and gradiometers. The MEG device has been upgraded to Elekta Neuromag MEG device in 2018.



2010

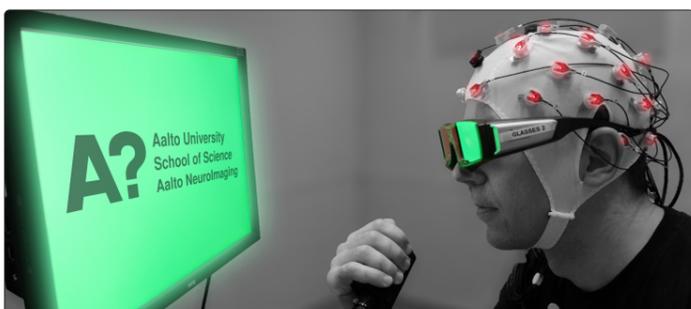
From the beginning of 2010, the Helsinki University of Technology (HUT), the Helsinki School of Economics, and the University of Art and Design Helsinki merged to form Aalto University. ANI facilities belong to School of Science, whose predecessors were part of HUT.



2013

Aalto NeuroImaging

Aalto NeuroImaging (ANI) combined AMI Centre, MEG Core and the just established Aalto TMS laboratory (2013). In December 2017, by the decision of the Dean of Aalto University School of Science, Aalto Behavioral Laboratory (ABL) joined in Aalto NeuroImaging Infrastructure.



2014

2021

2022

Via collaborators in the Finnish bioimaging platform, ANI was included first in Finland's strategy and roadmap for research infrastructures 2014-2020 by the Academy of Finland and Ministry of Education and Culture, and again 2021-2024.

Megin TRIUX Neo

The state-of-the-art MEGIN TRIUX Neo replaced the old MEG device. The new MEG device introduced zero boil-off helium system, wider dynamic range, and better signal-to-noise ratio.

