



Norwegian Artificial Intelligence Network for Europe



Forskningsrådet
The Research Council of Norway



UiO
University of Oslo



Norsk
Regnesentral
NORWEGIAN COMPUTING CENTER



UiA University
of Agder



SINTEF

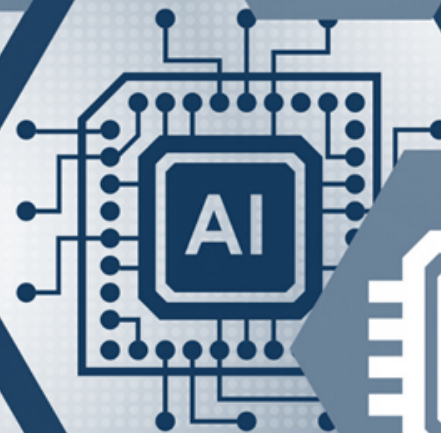
Agenda



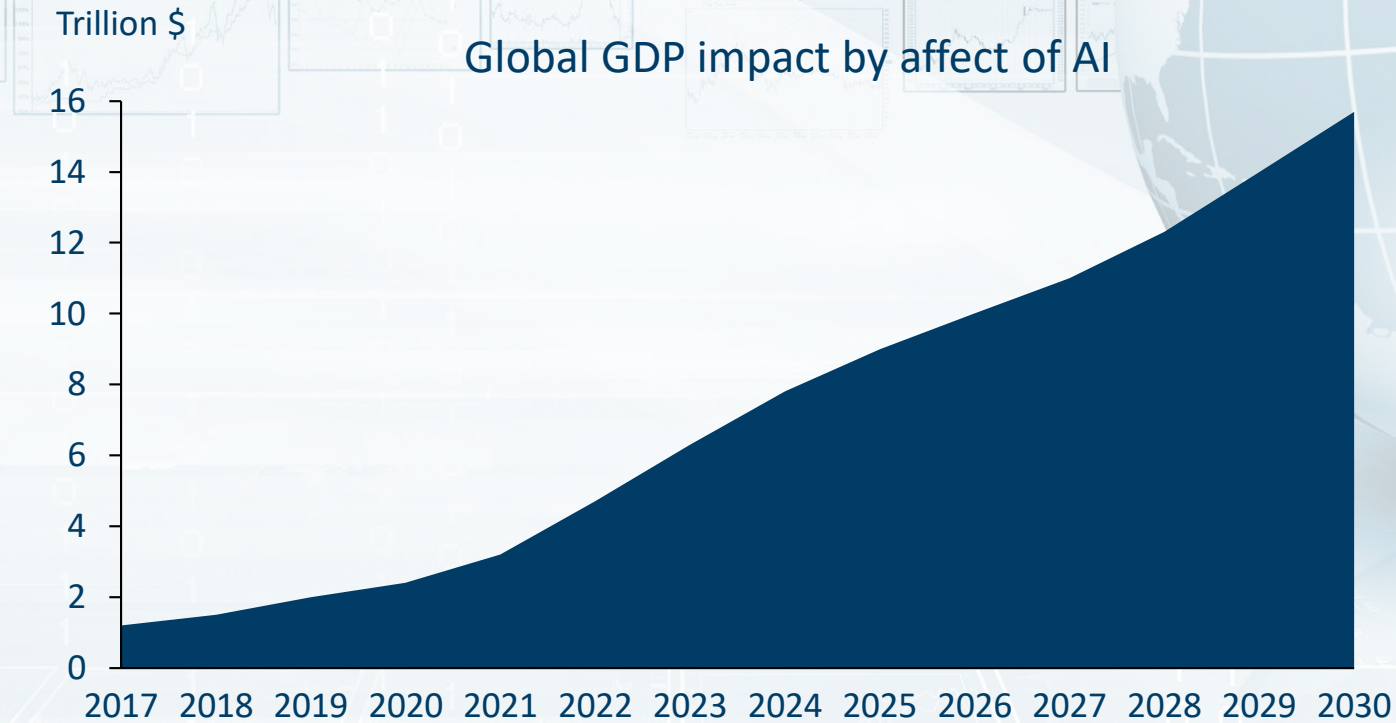
- Introduction
 - European and Norwegian context
 - What is NAINE
 - EU activities
- Future AI PPP - Till Lech
- AI HLEG – Ieva Martinkenaite
- CLAIRE – Morten Irgens
- Discussions
- Summary



MACHINE LEARNING



Potential value creation: 15,7 trillion USD



Global race on AI



Need for European approach to AI



Approach	Breakthrough
Focus	Technologies
Perspective	Vision-driven
Process	Light
Reach	Global



Fusion and speed
Applications
Result-driven
Heavy
Local



Domain knowledge
Benefit for society and nature
Value and ethics-driven
Collaboration
Europe

EU research and innovation program



Horizon 2020 #H2020

- Biggest EU Research and innovation program
- €80 billion over 7 years, 2014-2020



Horizon Europe Programme (HEP) #HorizonEU

- EU Research and innovation program succeeding H2020
- Proposed €94 billions, 2021-2027
- Research base in digital, industry and space cluster



Digital Europe Programme (DEP) #DigitalEurope

- Taking research results from HEP into market (2021-2027)
- Proposed €9.2billion, €2,5 billion for AI

EU related activities



High-Level Expert Group on AI (AI HLEG)

- Created June 2018, 52 experts
- Support implementation of European Strategy on AI
- Steering group for European AI Alliance (open for all)



Digital Innovation Hub (DIH) AI network

- DIH part of EU Single market (and Digital Europe)
- Network for hubs with focus on AI
- Cooperation across borders



AI4EU

- Creating the European AI-on-demand platform
- €20 million project in H2020, Starting January 2019

Other European activities



CLAIRE

- Research network founded in 2018
- Seek European excellence in AI, Humane AI



ELLIS Society

- Research network to advance AI breakthroughs
- European Laboratory for Learning and Intelligent Systems
- Founded in 2018

Hub France IA

- National hub to promote AI ecosystem in France



Norwegian landscape

UiT / THE ARCTIC UNIVERSITY
OF NORWAY

NAIS - Norwegian Artificial
Intelligence Society

AI Village

oii norwegian
open ai lab



NORA

simulamet
STARTUP
LAB

DigitalNorway

CAIR

ai Cluster for
Applied AI

SINTEF

Collaborate to win!



Goals of NAINÉ

1. Increase Norwegian participation in EU activities on AI
2. Unite forces and build bridge across various environments



Main activities

1. Participate in EU-fora

- Including hearings in calls

2. National network

- Arrange events twice a year
- Mapping of players and resources

3. Information sharing

- Information from EU-related workshops
- Mailinglists, newsletter (editor), "spam-list" (forwarding of relevant info)

What is NAINÉ?

- Network open for everyone in Norway interested in AI and national and European collaboration
- Steering committee consists of:



Anne Marthine Rustad
SINTEF



Signe Riemer-Sørensen
SINTEF



Jim Tørresen
UiO



Anders Løland
NR



Heri Ramampiaro
NTNU



Søren Kragholm
UiA

What it is..

- Dialogue across establish structures
- Help each other to so Norway does not start with full handicap

..and not

- It's not that everybody will participate in all applications
- There will still be competition and various consortia

100m vs 110m hurdles

Upcoming EU events



16-17/9 Digital Summit, Tallin

- National delegation from Norway
- Where frontrunners of digital nations drive global conversation on digitalization



16-17/9 AI and Health H2020, Oslo

- Brokerage for health-AI topics
- ICT-LEIT and SC1 programs



19-20/9 ICT Proposers Day, Helsinki

- Brokerage for digital topics
- Horizon 2020



14-16/10 EBDVF Helsinki

- European Big Data Value Forum with topic *Does Europe have a Future in AI?*
- European Big Data and AI communities



TBA AI4EU event 2019, Athens

Norwegian conferences 2019



9/10 AI konferansen, Oslo

- AI is entering Norwegian industry. What are the opportunities and the ethical consequences
- Dataforeningen



13/11 NOBIDS, Trondheim

- Norwegian Big Data Symposium. Special theme on Applied AI in 2019
- NTNU



29-31/10 NOKIOS, Trondheim

- Norwegian conference for ICT in the public sector
- NTNU



25-27/11 NIKT, Narvik

- Informatics, Information Security, Organizations' use of IT, Education and Didactics in IT subjects
- UiT



7/11 AIM North Symposium

- Connecting AI, minds and machines
- OsloMet

Norwegian conferences 2020



Spring 2020, NAIS, Oslo

- Norwegian AI Society Symposium
- Research presentation



January 2020?, Tromsø

- Northern Lights Deep Learning Workshop



Fall 2020, ICTIR, Stavanger

- International Conference on the Theory of Information Retrieval



February 2020?, University of Agder

Calls

Excellent Science	Industrial Leadership	Societal Challenges
European Research Council (ERC)	Leadership in Enabling and Industrial Technologies (LEIT) - ICT, KETs, Space	Health and Wellbeing
Future and Emerging Technologies (FET)		Food Security
Marie Skłodowska-Curie Actions (MSCA)		Energy
	Access to Risk Finance	Transport
		Climate action
Research Infrastructures	Innovation in SMEs	Societies
		Security
Spreading Excellence and Widening Participation, Science with and for Society, Fast Track to Innovation Pilot (2015-2016)		
European Institute of Innovation and Technology (EIT)	EURATOM	Joint Research Centre (JRC)

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Other EU initiatives

- Erasmus+ (in Norwegian)
- COST
- Creative Europe
- Joint Programming Initiatives (JPIs)
- Joint Technology Initiatives (JTIs)
- ERA-NET
- Private Public Partnerships (PPP)
- Eurostars

ICT-46-2020	Robotics in Application Areas and Coordination & Support	22/04/2020
ICT-47-2020	Towards a vibrant European boosting robotics applications	22/04/2020
ICT-48-2020	Artificial Intelligence on demand platform	13/11/2019
ICT-49-2020	Disruptive intelligence for manufacturing	22/04/2020
ICT-38-2020	Advancing photonics technologies and application driven photonics components and the	16/01/2020
ICT-36-2020	Innovation ecosystem	22/04/2020
ICT-37-2020	Software Technologies	
ICT-50-2020	Big Data technologies and extreme-scale analytics	
European Data Infrastructure: Big Data and Cloud technologies	Cloud Computing: towards a smart cloud computing continuum	22/04/2020
ICT-51-2020	SG PPP – Smart Connectivity beyond 5G	16/01/2020
ICT-40-2020	SG PPP – 5G innovations for verticals with third party services	22/04/2020
ICT-52-2020	SG PPP – 5G core technologies innovation	16/01/2020
ICT-41-2020	SG PPP – 5G for Connected and Automated Mobility (CAM)	13/11/2019
ICT-42-2020	Blockchain for the Next Generation Internet	16/01/2020
ICT-53-2020	Interactive Technologies	13/11/2019
ICT-54-2020	An empowering, inclusive Next Generation Internet	16/01/2020
ICT-55-2020	Next Generation Media	16/01/2020
ICT-56-2020	Reinforcing European presence in international ICT standardisation: Standardisation	16/01/2020
ICT-57-2020	Observatory and Support Facility	16/01/2020
ICT-44-2020	International partnership building between European and African innovation hubs	16/01/2020
ICT-45-2020		13/11/2019
International cooperation activities		22/04/2020
ICT-58-2020		
European and transforming digital innovation hubs and platforms		
DT-ICT-03-2020	4AMS (phase 4) - uptake of digital game changers	
DT-ICT-04-2020	Photonics Innovation Hubs	
DT-ICT-05-2020	Big Data Innovation Hubs	
DT-ICT-09-2020	Boost rural economies through cross-sector digital service platforms	
DT-ICT-12-2020	AI for the smart hospital of the future	
Societal Challenges		
Societal Challenge 1 - Health		
SCI-DTH-02-2020	Personalised early risk prediction, prevention and intervention based on Artificial Intelligence and Big Data technologies	
SCI-DTH-04-2020	Accelerating the uptake of computer living environments for ageing people	
SCI-DTH-06-2020	International cooperation in smart living environments for ageing people	
SCI-DTH-14-2020	Use of Real-World Data to advance research on the management of complex chronic diseases	
SCI-HCC-06-2020	Pre-commercial Procurement for Digital Health and Care Solutions	
SCI-HCC-07-2020	Support for European capacities for genomics and personalised medicine	
SCI-HCC-08-2020	Building up innovation for active and healthy ageing	
DT-TDS-04-2020	Supporting deployment of eHealth in low and lower middle income countries in Africa	
DT-TDS-05-2020	Scaling up innovation for active and healthy ageing	
SCI-BHC-06-2020	AI for Genomics and Personalised Medicine	
SCI-HCO-18-2020	Digital diagnostics – developing tools for supporting clinical decision making of high-risk medical devices	
	Developing methodological approaches for improved clinical decision making of high-risk medical devices	



Upcoming calls

Closing date	Call	Title	Budget	AI focus
2019.11.13	ICT-48-2020	Towards a vibrant European network of AI excellence centres	50M€	Direct
2020.01.16	ICT-38-2020	Artificial intelligence for manufacturing	48M€	Direct
2020.01.16	ICT-44-2020	Next Generation Media	17.6M€	Applied
2020.01.16	ICT-50-2020	Software Technologies	29M€	Possible
2020.01.16	ICT-56-2020	Next Generation Internet of Things	48.5M€	Direct
2020.04.22	ICT-46-2020	Robotics in Application Areas and Coordination & Support	86M€	Direct
2020.04.22	ICT-47-2020	Research and Innovation boosting promising robotics applications	20M€	Direct
2020.04.22	ICT-49-2020	Artificial Intelligence on demand platform	20M€	Direct
2020.04.22	ICT-58-2020	International partnership building between European and African innovation hub	11M€	Possible

AI PPP by Till Lech

- Research manager, Smart Data @SINTEF
- Board member in Big Data Value Association (BDVA)



AI HLEG by Ieva Martinkenaite

- Vice President @Telenor
- Expert member in High-Level Expert Group on AI
- Chairwoman, AI Task Force



CLAIRE by Morten Irgens

- Dean @Høyskolen Kristiania
- Core Team Member, CLAIR
- Member of Board, NORA



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2. Unite forces and build bridge across various environments



Discuss the following with your neighbour

1. How can Norwegian AI–environments work together?
2. Which activities are needed in a Norwegian AI-network?
 - As a Norwegian meeting place?
 - Towards EU?

Discuss the following with your neighbour

1. What do you expect from the NAINÉ-network?
2. What do you need?
 - As a Norwegian meeting place?
 - Towards EU?
3. How would you like to contribute?

Next NAINÉ event

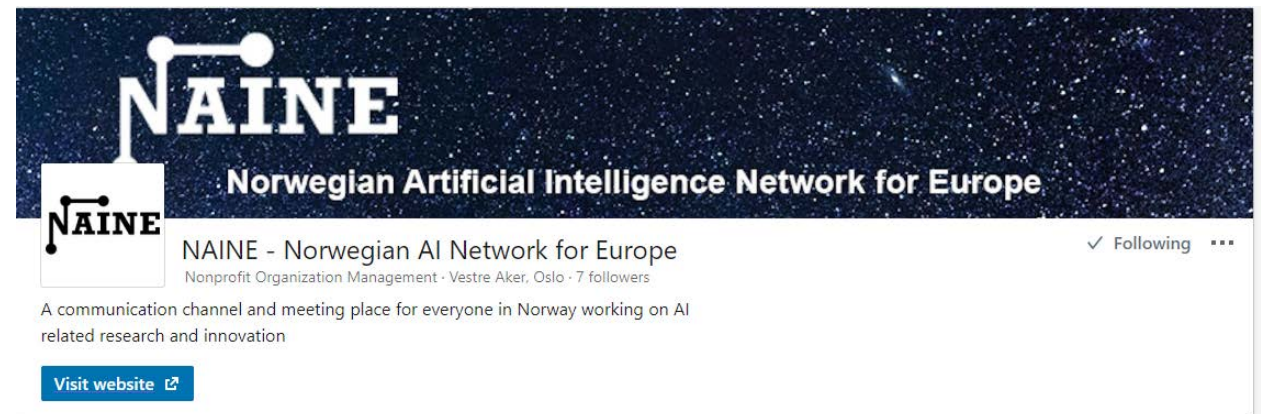
- Q1 2020?
- Presentations
- AI-related policies
- Reports from EU-events
- Meet and mingle





Summary

- Follow us:
 - www.sintef.no/NAINE
 - www.linkedin.com/company/naine/





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