

3D printing in Health

Norwegian Smart Care Cluster

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Safety and
security



Treatment and
care



Social contact



Medical aids



Lifestyle &
prevention



Smart Homes



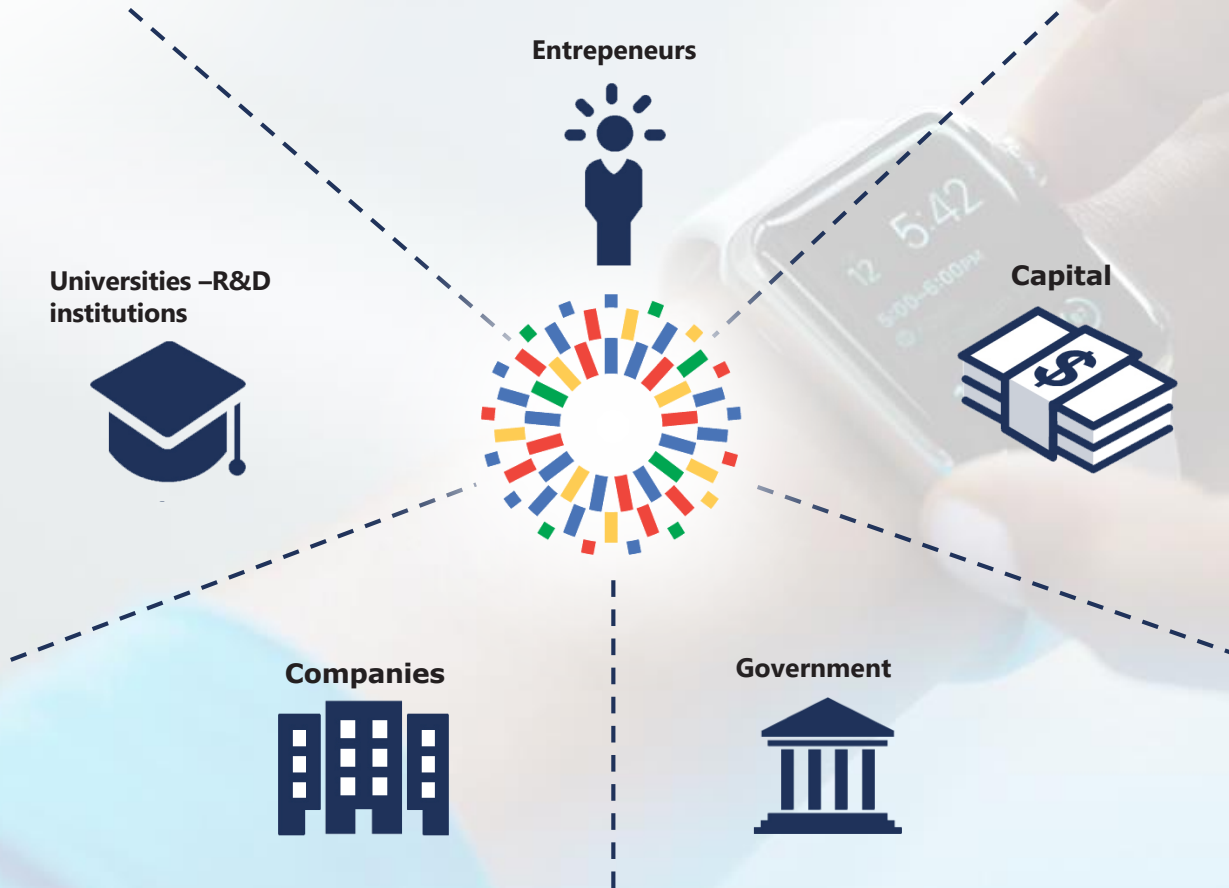
Specialised
subcontractors



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Arena Pro



190 members and partners:
130 companies
50 municipalities and public institutions
4 universities
2 university colleges
2 research institutes

ArenaPro in the national cluster program
Silver certification in ESCA

Based i Stavanger, with nodes in Bergen and Agder.

Members from all across Norway

**Norwegian Smart Care Cluster –
from market to industry**



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SmartCare - digital healthcare solutions for the interplay between user-patient in their home and municipality / hospital.



SmartCare



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Solutions areas in the cluster



Safety and security

Eg. Digital security alarms, notification and localization technology, medicine dispensers, and various forms of sensors.



Treatment and care

Give people the opportunity to better master their own health, for example, chronic disorder. Diabetes, COPD, Automatic measurement of blood glucose, blood pressure, etc.. Remote monitoring, Hospital at Home



Medical aids

Assists for example when memory gets worse, or physical malfunctions. This also includes technology that makes everyday life easier, such as control of light and heat and transfer aids and aids that compensate for physical disabilities and lack of strength, wheelchairs, hearing aids, visual aids



Lifestyle & prevention

Solutions that works on preventing bad health – thus delaying the need for medical treatment. Exercise, diet, stop smoking....



Social contact

Assists people to get in contact with others, such as video communication technology, web services and robotics



Smart Homes

Design, facilitation, steering and management systems, etc. electronic door locks, sensor systems - light, heat, cameras



Specialised subcontractors

Design companies, platform vendors, programdevelopment, AI, BigData, HW development, programmable systems



Medical Applications of 3D Printing

3D printers are used to manufacture a variety of medical devices, including those with complex geometry or features that match a patient's unique anatomy.

Some devices are printed from a standard design to make multiple identical copies of the same device. Other devices, called patient-matched or patient-specific devices, are created from a specific patient's imaging data.

Commercially available 3D printed medical devices include:

- Instrumentation (e.g., guides to assist with proper surgical placement of a device),
- Implants (e.g., cranial plates or hip joints), and
- External prostheses (e.g., hands).



Scientists are researching how to use the 3D printing process to manufacture living organs such as a heart or liver, but this research is in early stages of development.



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3D PRINTING

12 THINGS WE CAN 3D PRINT IN MEDICINE RIGHT NOW

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<https://3dprintingindustry.com/news/12-things-we-can-3d-print-in-medicine-right-now-42867/>



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