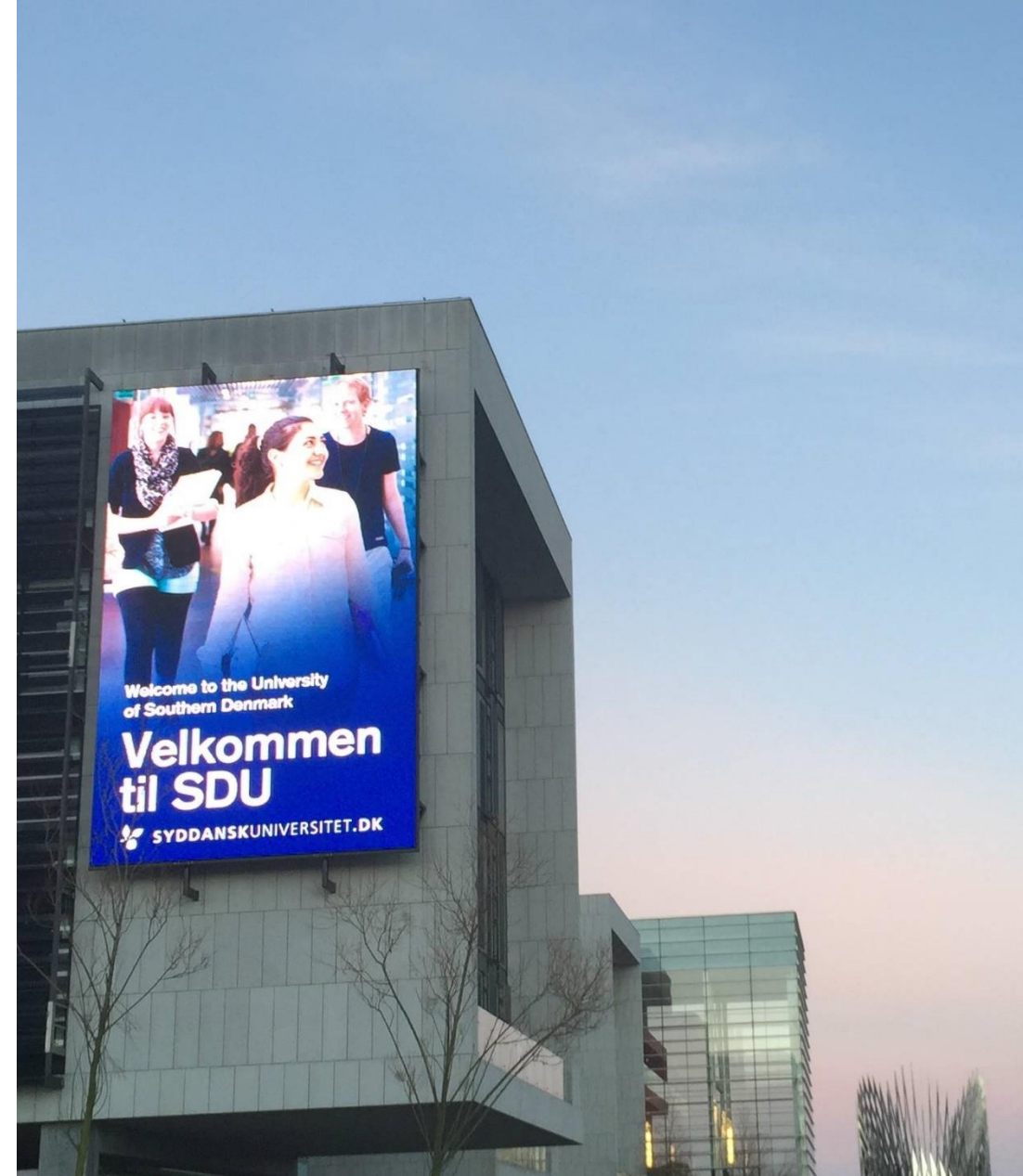Mads Clausen Institute

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Access & Acceleration

Academia-Hospital-Industry Platform for Health Innovation

Frank Jürgensen, Prof. Dr. Horst-Günter Rubahn
University of Southern Denmark, Mads Clausen Institute

Content

- Facts and Network

- Scope

- Ideation

- Development

- Market Access

- Services

Facts

- ACCESS and ACCELERATION - a German-Danish innovation network for better healthcare

- Interreg Deutschland – Danmark

- 6 project partners

- 9 network partners

- 2.9 Mio EUR

- Lead partner: University of Southern Denmark, Mads Clausen Institute

- April 2019 – March 2022

Network

SDU/Odense University Hospital

Universities - Hospitals

Companies - Clusters

Business Development

Network partners

Hospital of South West Jutland, Exoprothesennetz.SH, Life Science Nord Management, Syddansk Sundhedsinnovation, SCANBALT

KiWi, Wirtschaftsförderungsagentur Kreis Plön, Kalundborgegnens Erhvervsråd, Sorø Kommune

Scope

NEED for involvement of users and regional excellence for health innovation

ACCESS to regional resources for innovation across the border i.e. hospitals, research institutions, companies

ACCELERATION of cross-sector cooperation along the innovation cycle

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Scope

NEED for involvement of users and regional excellence for health innovation

ACCESS to regional resources for innovation across the border i.e. hospitals, research institutions, companies

ACCELERATION of cross-sector cooperation along the innovation cycle

- Platform for partnerships in health care innovation

- Ideation workshops

- Development: PoC, R&D, prototyping, business models

- Market Access workshops

- Services

WALL OF FAME

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Scope

Collaboration and User Involvement at different TRL stages

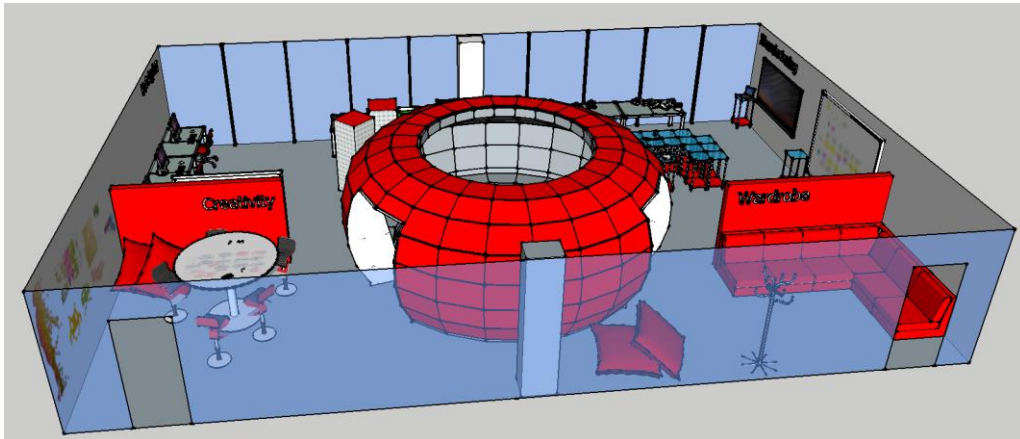| WP 4	WP 5	WP 6
The ideation process	The development process	The market access

Invention		Concept validation		Prototyping & incubation	Pilot production & demonstration		Initial market introduction	Market expansion
TRL1 Basic principle observed	TRL2 Technology concept formulated	TRL3 First assess-ment feasibility concept & technologies (PoC)	TRL4 Validation integrated prototype in lab environment	TRL5 Testing prototype in user environment	TRL6 Pre-production product	TRL7 Low-scale pilot production demonstrated	TRL8 Manufacturing fully tested, validated and qualified	TRL9 Production and product fully operational

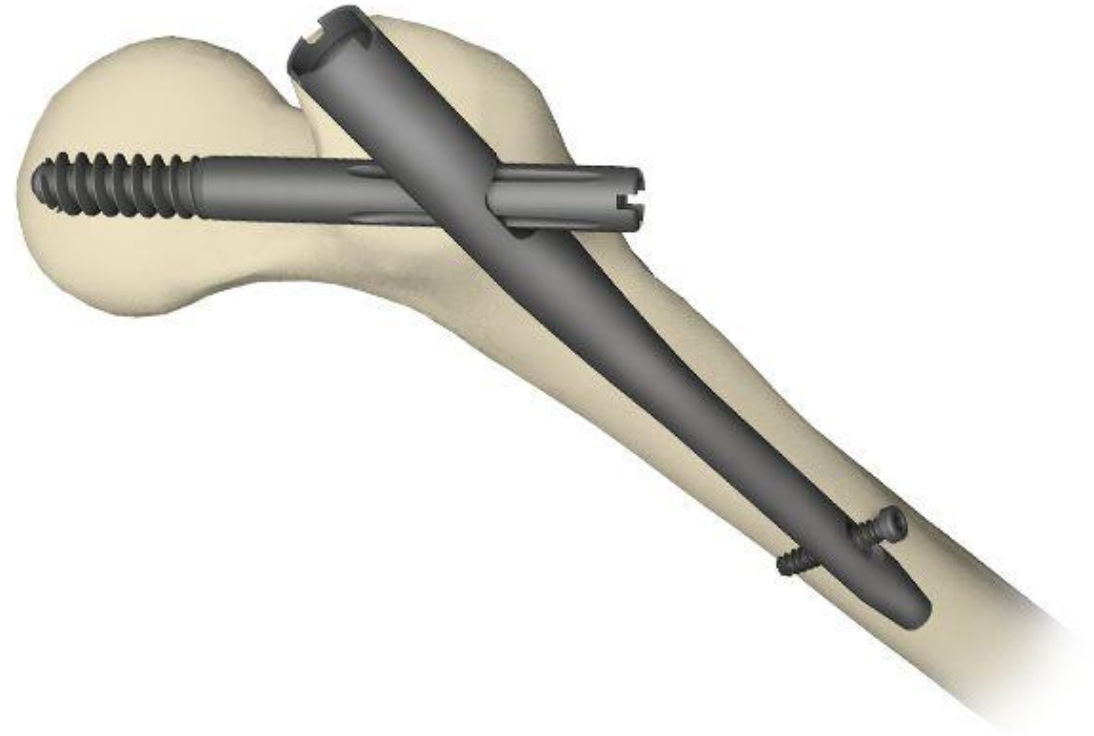**WP 3**
The Danish-German health innovation platform

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Ideation

- Cross-border Ideation Workshops (4)

- Involvement of clinicians, patients, care professionals, engineers, researchers, business developers, students

- Facilitation by innovation research: trend analysis, patent and publication analysis, strategic foresight

- Selection and support of two pilot processes along TRL1-4

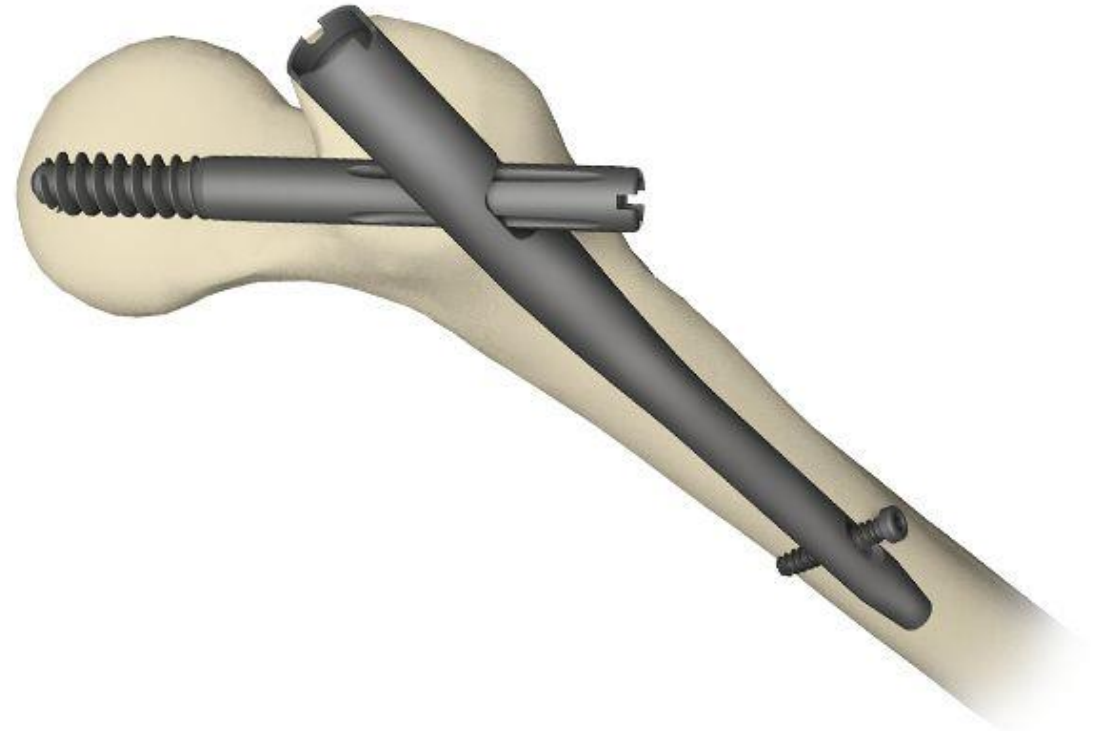- Innovation Lab in Sønderborg

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Development

- Focus areas:

    - Fracture treatment
    - Decision support / electronic health records
    - Simulation and Imaging

Source: Stryker Gamma3 Nailing System

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Development

- Focus areas:

  - Fracture treatment
  - Decision support / electronic health records
  - Simulation and Imaging

- Pilot 1: Clinical decision support based on electronic health records (main partners: CIMT, Cambio Healthcare)

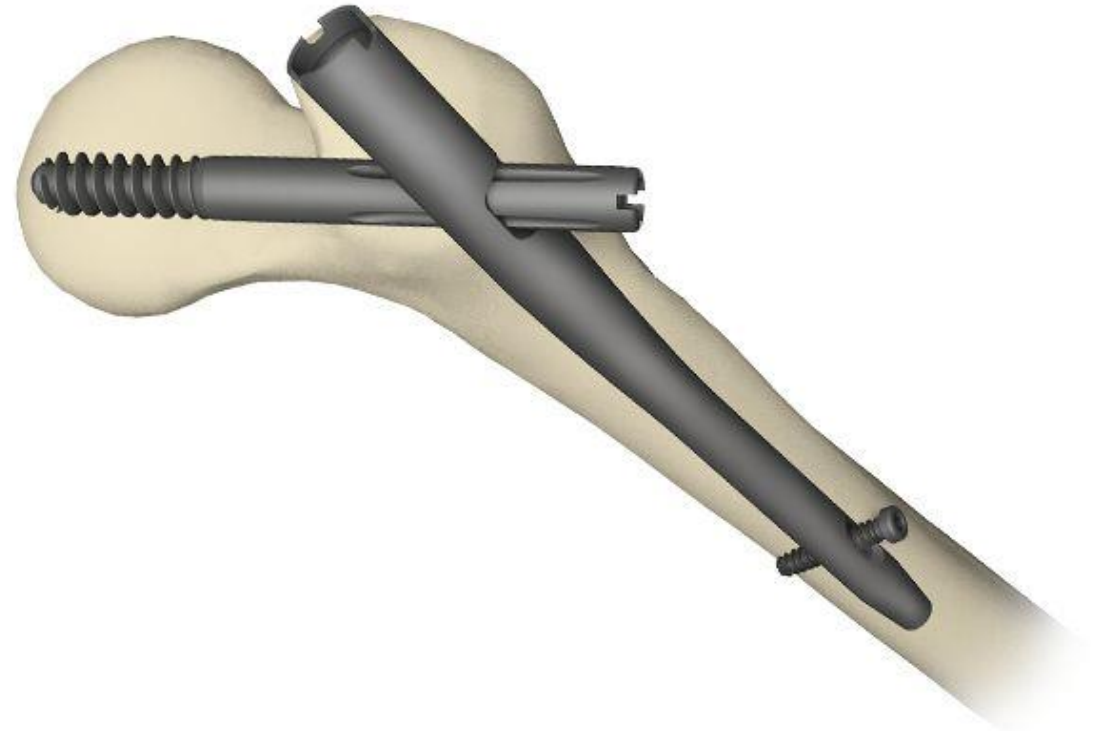Source: Stryker Gamma3 Nailing System

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Development

- Focus areas:

  - Fracture treatment
  - Decision support / electronic health records
  - Simulation and Imaging

- Pilot 1: Clinical decision support based on electronic health records (main partners: CIMT, Cambio Healthcare)

- Pilot 2: Treatment of geriatric fractures (TRL 5-7)

  - Stryker Trauma, SDU, UKSH, CIMT
  - Next generation of the Gamma nailing system
  - High-end simulation techniques and imaging (SDU)
  - Involvement of clinicians
  - Involvement of researchers and engineering students

Source: Stryker Gamma3 Nailing System

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Market Access

- Interviews and workshops in Lübeck and Odense

- Companies, hospitals, patients, clusters, universities

- Case studies focusing on SMEs

- Barriers and strategies for market access of medical technologies

- Information events and toolkit

- Input from key projects and networks in Denmark and Germany:

patients@home, BFCC, bonebank, WelfareTech, Syddanks Sundhedsinnovation, LifeSciene Nord, SCANBALT, Interreg health projects

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Services

- Academic resources are open to industry

- Collaborate with medical staff, researchers and engineering students

- Use world-class equipment

- **Quick and professional access for innovative companies in the border region**

Education	Research collaboration	Services
• Semester projects	• Public co-funding	• Consulting
• Bachelor and master thesis	• Private co-funding	• Testing and analysis
• Internship	• Industrial PhD	• R&D
• Guest lectures and site visits		• Product development
• Student jobs		• Rent of equipment
		• Continuing education
		• Licensing

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Thank you!
Questions?

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