HSLU Lucerne University of Applied Sciences and Arts

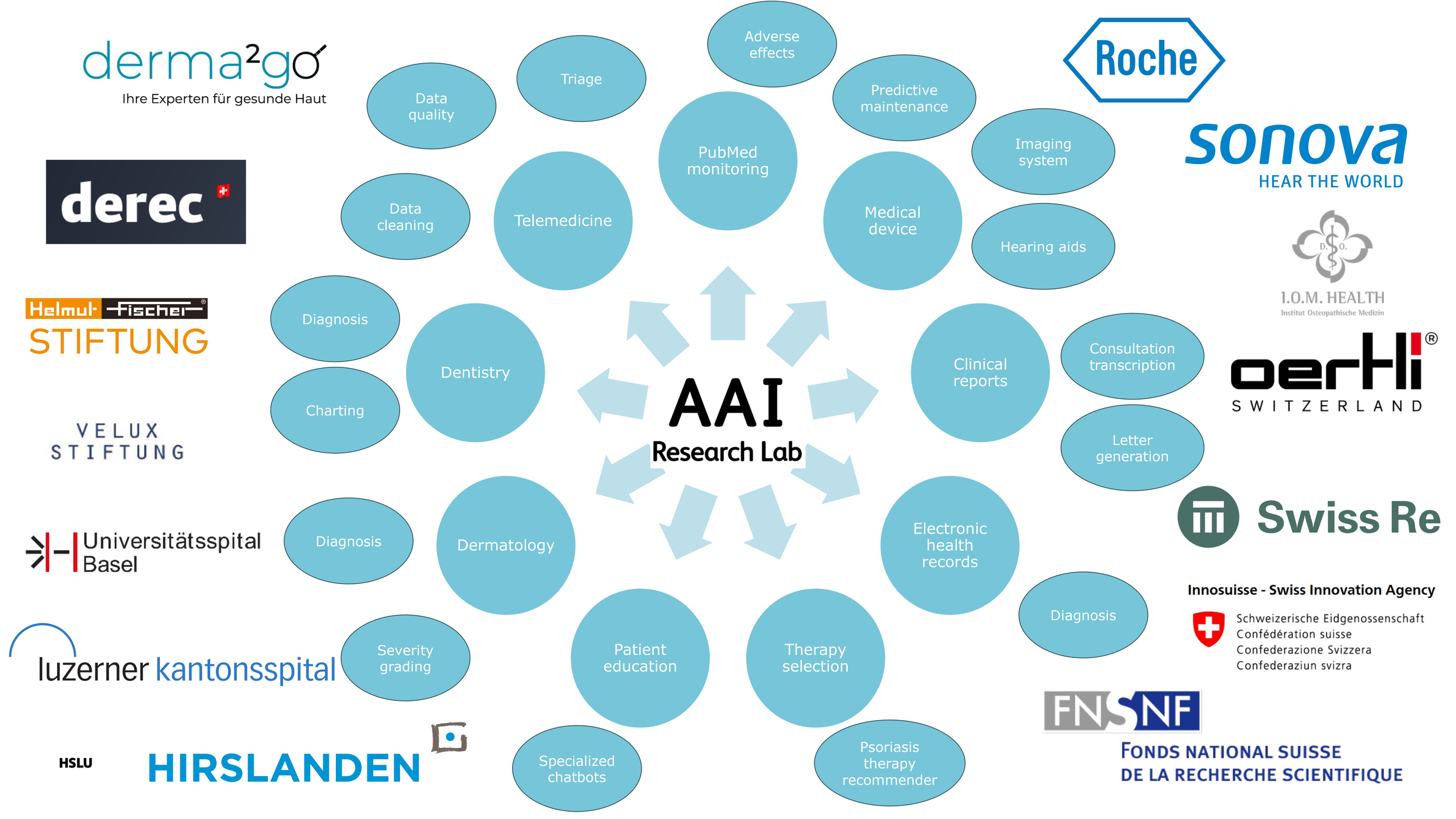
AAI Research Lab

Advancing EU Telemedicine with GenAI

Dr. Ludovic Amruthalingam
ludovic.amruthalingam@hslu.ch
www.hslu.ch/aai

Information Technology
Applied AI Research Lab

FH Zentralschweiz


AAI
Research Lab
Adverse effects
Triage
Data quality
Predictive maintenance
PubMed monitoring
Imaging system
Telemedicine
Medical device
Data cleaning
Hearing aids
Diagnosis
Dentistry
Clinical reports
Consultation transcription
Charting
Letter generation
Diagnosis
Dermatology
Electronic health records
Diagnosis
Severity grading
Patient education
Therapy selection
Specialized chatbots
Psoriasis therapy recommender
derma²go
Ihre Experten für gesunde Haut
Roche
sonova
HEAR THE WORLD
derec
I.O.M. HEALTH
Institut Osteopathische Medizin
Helmut Fischer
STIFTUNG
oerlikon
SWITZERLAND
VELUX
STIFTUNG
Universitätsspital Basel
Swiss Re
Innosuisse - Swiss Innovation Agency
Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra
luzerner kantonsspital
FNSNF
FONDS NATIONAL SUISSE
DE LA RECHERCHE SCIENTIFIQUE
HSLU
HIRSLANDEN

Vision

Scale-up teledermatology care across Europe and globally with GenAI.

Our projects aim to:

- Enhance triage, early detection and decision-making in skin diseases
- Tackle infectious and neglected skin conditions through digital diagnostics
- Promote personalized and remote care

Expertise – Applied AI research lab

AAI Research Lab

Universitätsspital Basel

- Specialized in applied AI for Medtech
- 10+ years developing AI decision support tools for dermatology
- Close collaboration with Basel University Hospital’s Dermatology Clinic

International network: PASSION for Dermatology in Sub-Saharan Africa

Eczema

Impetigo

Ringworm

Scabies

Insect bites

Gottfrois et al. "Passion for dermatology: Bridging the diversity gap with pigmented skin images from sub-saharan africa." MICCAI, 2024.

Let’s collaborate

We offer:

- AI model development & clinical validation
- Access to Swiss and African dermatology network

Looking for:

- EU-based hospitals, research labs, NGOs, SMEs
- Telemedicine expertise in different medical specialty

Contact: ludovic.amruthalingam@hslu.ch | www.hlu.ch/aai