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A World  
Leading SFI  
Research  
Centre



2022

# ADVANCE

## Human Centric AI for Health

HOST INSTITUTION



Trinity College Dublin  
Coláiste na Tríonóide, Baile Átha Cliath  
The University of Dublin

HOST INSTITUTION



PARTNER INSTITUTIONS



University College Dublin  
An Coláiste Ollscoile, Baile Átha Cliath  
Ireland's Global University



MU  
Munster Technological University



Maynooth  
University  
National University  
of Ireland Maynooth



# AGENDA

REGISTRATION AND TECHNOLOGY SHOWCASE	8:45 - 9:25	Light breakfast and networking
WELCOME	9:25 - 9:40	Professor Vinny Wade, Director and CEO of the SFI ADAPT Centre
KEYNOTE	9:40 - 10:05	Professor Philip Nolan, Director General of Science Foundation Ireland
ARTIFICIAL INTELLIGENCE IN HEALTH	10:05 - 10:40	Stories from the frontier
PANEL DISCUSSION	10:40 - 11:25	Impact of Data and AI for Health Transformation
THE AI LANDSCAPE AND ADAPT	11:25 - 11:40	Declan McKibben, Executive Director, ADAPT Centre
CLOSING REMARKS	11:40 - 11:45	Professor Vinny Wade, Director and CEO of the SFI ADAPT Centre
	11:45 - 12:30	LUNCH AND NETWORKING

## Dear Colleagues and Friends,

In July 2021, the SFI ADAPT Centre went live with the inaugural ADVANCE event. Our aim was to share unique insights, the latest emerging technologies and examples of best practices so organisations can benefit from the world-class, inter-disciplinary research taking place at ADAPT.

The overarching theme for ADVANCE 2022 is Human Centric AI for Health

Healthcare systems and providers have historically been impeded by legacy IT systems and regulations that stunt innovation and change. However, the disruption caused by the COVID-19 pandemic has forced the sector to become more agile and embrace digital transformation to meet the demands faced by the healthcare ecosystem.

On 29th June, the SFI ADAPT Research Centre for AI-Driven Digital Content Technology headquartered in TCD will hold its annual ADVANCE event on Human-Centric Artificial Intelligence for Health. Data-driven decision making has become the foundation for reducing costs, enhancing operational efficiency, delivering better engagement, and improving health outcomes.

Change is coming and ADAPT's multidisciplinary research is supporting enterprises on their digital journeys. This event will have a panel of leading technical, clinical and industry experts who will delve into the promises and perils of AI in health. We hope to welcome you to this exciting event.

### Professor Vinny Wade

Director of the ADAPT Centre and holds the Professorial Chair of Computer Science (Est. 1990) in School of Computer Science and Statistics, Trinity College Dublin as well as a Personal Chair in Artificial Intelligence. His research focuses on intelligent systems, AI and Personalisation.



# Who is ADVANCE for?

ADVANCE is designed for insightful yet multidisciplinary discussions in and around AI-driven healthcare. The conference will host talks that are valuable for a variety of professionals with broad specialties, whether it is in advanced analytics, data management, data privacy and security, artificial intelligence, information systems, medical practice, clinical research and healthcare technologies.

# What will ADVANCE offer?

ADVANCE was established with the aim of encouraging an exchange of knowledge, ideas, risks and opportunities in artificial intelligence-driven healthcare. In keeping with these objectives, the event will revolve around four key pillars.

1. Ethics in eHealth Data Governance
2. Artificial Intelligence in Healthcare
3. Precision & Predictive Medicine
4. The Future of Human Centric eHealth

# When and where will ADVANCE be held?

The ADAPT Centre is delighted to welcome a panel of leading experts in the field of digital transformation in healthcare for ADVANCE 2022. The event will be hybrid with the in-person event taking place in the heart of Dublin, one of the leading tech cities in Europe, and will be made available for those who prefer virtual.

**29th June  
09.00 am - 01.00 pm  
Regent House  
Trinity College Dublin**



# Transforming the Future of Healthcare

The ADAPT Centre collaborates on research and invention projects funded by the European Union, the Irish government, global technology and pharmaceutical firms in addition to receiving support on projects from other Science Foundation Ireland Research Centres. ADAPT's multi-disciplinary team specialises in a variety of technical, clinical and social disciplines to bring about a real difference in the quality of life for patients and their families.

This has resulted in a variety of collaborative, multi-disciplinary research projects that the Centre has been involved in. Here is a glimpse of some of them.



## The HELICAL Programme

HELICAL is a collaborative project involving 23 partners across Europe linking healthcare data in autoimmune disease in the GDPR era, funded by the H2020 ITN, led by Professor Mark Little from Trinity College Dublin. This 36-month training programme is delivered through a partnership of academic and Industry researchers with expertise in biomedical research, epidemiology, statistics, machine learning, health data governance and ethics.

## Precise4Q

ADAPT lead at TU Dublin, Professor John Kelleher is working on the European Commission's H2020 project - Personalised Medicine by Predictive Modelling in Stroke for Better Quality of Life, (PRECISE4Q). The project aims to reduce the burden of stroke on the individual and society by creating data-driven predictive simulation models to enable personalised stroke treatment through four stages: prevention, acute treatment, rehabilitation and reintegration.



## Precision ALS

Precision ALS is a €10 million research programme involving researchers at the SFI Research Centres ADAPT and FutureNeuro along with the TRICALS Consortium, Europe's largest ALS research initiative. National and international industry partners including Biogen, Novartis, Takeda, IQVIA, Roche and Accenture are also involved in this project which aims to understand the causes, development and treatment of ALS with the help of AI.



## Grow

ADVANCE 2022 will provide the space for rich exchange of professional ideas in multi-disciplinary areas including machine learning, health data governance, healthcare and ethics. The objective is to power attendees with the pressing issues and perspectives which will power the future of digital healthcare in the next few decades. This is a valuable opportunity for professionals to discover upcoming technologies transforming the healthcare landscape today.

## Network

The ADAPT Centre is bringing collaborators and speakers from a variety of institutions in the healthcare and technology domains together under one roof for ADVANCE 2022. This presents the possibility for attendees to have purposeful discussions and build strong connections with highly accomplished professionals in numerous domains all creating valuable, game-changing work in the area of AI-driven healthcare.



## Invent

The aim of ADVANCE 2022 is to provide the knowledge and the network that can enable everyone to be part of the healthcare digital transformation. Inventions can come from collaborations, even as collaborations can come from awareness of the opportunity technology provides when it comes to futuristic and human-centric healthcare. ADVANCE 2022 aims to facilitate networks and knowledge transfers integral to such inventions.



**...in sustainable and responsible AI.**

## We believe

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**...AI empowers flexible work environments.**

**...diversity drives innovation.**

**...in empowering people for healthy engagement in a digital world.**

**...transformative technology can enhance equality of opportunity.**

**...in ethically driven artificial intelligence.**

**...in technology that enhances the human in the loop.**

**...AI will transform healthcare.**

**...great innovation happens with multidisciplinary research teams.**

**...individuals should have visibility and control of their personal data.**

# GET IN TOUCH

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Together we can create the  
healthcare of tomorrow

Start a conversation with ADAPT  
researchers, academics, ethicists and experts

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**ATTEND IN PERSON**

**JOIN VIRTUALLY**