

JOSEPH DALTON, PhD

Digital Health & Healthcare Technology Executive | R&D Incentives and Innovation Strategy Leader.

AI & Predictive Analytics | Medical Devices | Software as a Medical Device (SaMD) | Healthcare Innovation | Digital Transformation | Product Strategy | Global R&D Innovation

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PROFESSIONAL SUMMARY

Senior Digital Health and Healthcare Technology Executive with 20+ years of leadership experience spanning Pharmaceuticals, Medical Devices, AI-enabled healthcare, Software as a Medical Device (SaMD), clinical development, and enterprise IT transformation. Former global head of Digital & IT Solutions at Novartis and senior IT and Innovation executive at Intel Corporation, I have led international teams develop solutions across IT, AI, Predictive Data analytics, Digital Health, and fully regulated devices domains. Additional experience also includes founding and leading a Digital Health start-up company, author of Ireland's National eHealth Strategy, advising and consulting on healthcare and IT Innovation and R&D Tax incentives.

SELECTED EXECUTIVE ACHIEVEMENTS

- **Novartis Digital Health and IT Global Director:** Led multimillion-dollar investment international programmes across multiple therapeutic areas.
- **Novartis AI and Predictive Analytics Lead:** Impact was Clinical Trials recruitment and site rescue times reduced by 20%.
- **Novartis IoT Regulated Digital Health IoT Platform Delivery:** Enabling compliant data flows and extending patient access for clinical trials purposes by more than 15%.
- **Novartis Medical Device and SaMD Development Director:** Increased Access and Quality of patient care by 10-15% while yielding approx. 20% reduced hospitalisations.
- **Intel Global Innovation:** One of the original architects of Intel's involvement in IT Innovation, Telehealthcare, pharmaceutical safety, and Ambient Assistive living technologies.
- **Digital Health Entrepreneurship:** Founder and CEO of Intellehealth, a Digital Healthcare (Telehealthcare) startup focused on remote patient monitoring and chronic disease management.
- **Author of Ireland's National eHealth Strategy:** Author of Ireland's National eHealth Strategy in 2014 establishing a €263M budget framework for digital transformation of the Irish Healthcare system.
- **R&D Innovation Supports and Incentives:** Assessor/auditor for public and private bodies. Includes Tax Credits and Intellectual Property (IP) categories.
- **Innovation Recognitions:** Awarded Intel's *Global Innovator of the Year* in 2005 and winner of Novartis' *Global Technology Challenge* in 2022

CORE COMPETENCIES

Digital Health • Organisational Leadership • Medical Devices • SaMD • AI & Machine Learning • Predictive Analytics • COPD & Respiratory Health • Clinical Development • Product Strategy • Digital Therapeutics • Healthcare IT Innovation • IoT & Connected Health • Wearables • Regulatory Strategy • Quality & Risk Management • EU MDR • Clinical Trials Technology • Portfolio Leadership • Agile Delivery • Innovation Funding • Commercialisation • AWS • Cybersecurity • R&D Tax Credits and IP and Incentives assessor/auditor.

PROFESSIONAL EXPERIENCE

NOVARTIS PHARMACEUTICALS 2014-2024

Global Head, Digital & IT Solutions, Global Drug Development

Leading multimillion-dollar Digital Health investments across global therapeutic portfolios

Key Achievements

- Led international teams of up to 30+ digital solutions specialists across Europe, Asia and the USA, combining internal, offshore, and outsourced development capabilities and technology vendors.
 - Directed Clinical Trial Optimisation programmes incorporating AI and predictive analytics programme with a budget of more than US\$7M. Reduced overall Clinical Trial recruitment and rescue time by 20%.
 - Delivered Novartis' first fully regulated Digital Health IoT Platform enabling compliant data flows and extending patient access for clinical trials purposes by 15%. This was a US\$5M investment.
 - Delivered regulated SaMD solutions across Respiratory, Neuroscience, and Ophthalmology portfolios, with typically 3–4-year development lifecycles and approx. US\$4-5M budget. Estimated to increase Access and Quality of patient care by 10-15%. Incorporated connected devices such as wearables, inhalers, and autoinjectors.
 - Directed Novartis Telehealth Monitoring POC 2017, BioButton PoC Healthy Volunteer Covid Study 2022, and full development of MsProDiscuss Multiple Sclerosis diagnostic tool 2018. The MsProDiscuss tool had a clinician satisfaction rating of 92% and is in use today.
 - Winner of *Novartis Global Technology Challenge 2022* for my work on the opportunities of emerging Digital technologies on the traditionally *under-innovated* domain of Mental health therapeutics.
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INTEL CORPORATION 1996-2007

Innovation Leader | Programme Manager | IT Manager

Held several senior leadership positions spanning healthcare Innovation, IT and technology strategy, programme delivery, quality systems, and manufacturing operations.

Key Achievements

- Co-founded Intel's IT Innovation Centre Network. This was a multimillion-dollar network operating across 16 countries. Delivered many proof of concepts (POCs) and Minimal Viable Products (MVPs) in emerging technologies such as Radio Frequency Identification (RFID), Digital Health devices and Data analytics.
 - I was one of the original architects of Intel's involvement in healthcare IT Innovation including Telehealthcare, pharmaceutical safety, and Ambient Assistive Living (AAL) technologies. Intel went on to fund many companies in these areas and fully commercialise the early work we performed.
 - One POC we conducted on a hospital capacity improvement system in Birmingham, Alabama, USA showed average patient discharge time improvements of over 80% with an ROI of greater than 150%.
 - Programme Manager for Intel IT Solutions Centres Network which had a US\$50M budget across 3 European countries with full operational and technical accountability.
 - Directed an innovative European Union FP7 Project with a US\$1M budget in collaboration with 7 global industry and academic partners.
 - Awarded Intel *Global Innovator of the Year* in 2005 for my work on Digital Health and Innovation commercialisation.
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GOVERNMENT OF IRELAND 2013 - 2014

Author, National eHealth Strategy

- Sole author of Ireland's National eHealth Strategy, establishing a national framework for Digital Healthcare transformation. Used an evidence-based methodology to plot the course for Ireland over a 10-year period. Included recommendations for ePrescribing, National Imaging system, EHRs and Telehealthcare.
 - A statutory body called *eHealth Ireland* was established to execute the strategy. This body has a budget of over €263M and it aims for 37% reduction in hospitalisations and 35% reduction in prescribing errors by 2030.
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INTELLEHEALTH

Founder & CEO 2012-2018

- Founded and led a Digital Health company focused on remote patient monitoring and chronic disease management. Partnered with Philips for the platform technology plus other partners in the technology, clinical and device domains.
- Secured various funding sources before winding up in 2018.

ADDITIONAL LEADERSHIP AND ADVISORY EXPERIENCE

ZOETIS ANIMAL HEALTH 2024

Director, Diagnostics Innovation Strategy

- Led strategic planning activities for connected and AI-enabled diagnostic device portfolios. Included an integrated IT and diagnostic device roadmap covering a 3–5-year planning horizon.

SOUTHEAST TECHNOLOGICAL UNIVERSITY

Adjunct Lecturer 2014 – Present

- Lecturer in Innovation Management and technology commercialisation.

R&D TAX CREDIT & INNOVATION ADVISOR 2011 – Present

- Advisor to public and private organisations on Innovation strategy, R&D incentives including R&D Tax, commercialisation, and funding/grant programmes.

EDUCATION

- PhD, Electrical Engineering / Physics, Cardiff University 1997
- MSc, Electrical Engineering, Cardiff University 1992

PROFESSIONAL DEVELOPMENT

Agile Project Management • Machine Learning • AI Methods • AWS Architecture • DevOps • Advanced Cybersecurity • Kubernetes • Leadership & Innovation Programmes • Many more...