

IDEAM

INDUSTRY CLUSTER

COLLABORATION | INNOVATION | GROWTH

SUPPORTING MANUFACTURING SMEs GROWTH THROUGH DIGITALISATION

ANNUAL REVIEW 2021



CREATED BY

DR. JAMIE MEEHAN

Cluster Manager

Educational and Outreach

IDEAM Cluster



www.ideam.ie



IDEAM Annual Review 2021

Table of Contents

Letter from the Cluster Team	2
IDEAM Cluster at a Glance	2
Testimonials	2
Survey Findings	2
IDEAM Cluster Value Proposition	2
Governance	2
Members Profile	2
Funding	2
Internationalisation	2
Talent and Skills	2
Research and Development	2
Business and Community	2
Digital Communication and Social Impact	2
IDEAM in the NEWS!	2
2021 Overview and Next Steps	2

Letter from the Cluster Team

Dear Member,

As the Cluster Manager, I am proud to share our **IDEAM Cluster** 2021 Annual Review with you highlighting our track record and achievements over the past year of building the cluster. **IDEAM** was initiated in December 2020 and officially launched in April 2021. Since then, many achievements have been made in an exponential way.

Improve the competitiveness, productivity, internationalisation, and growth of our cluster members by 'Innovation through Collaboration'.

2021 was a challenging year for us all and building the cluster virtually for most of 2021 was no different. Our overarching objective is to support manufacturing SMEs with their business growth through digital transformation. Our main competitive pillars are: (1) Talent & Skills, (2) Research & Development, (3) Internationalisation & Funding and (4) Business & Community Development. Focusing on these strategic areas has helped our members with their competitive positioning and integration into global value chains, innovation through collaboration opportunities, adoption of Industry4.0 and promotion of human capital development.

The success is due to the constant and continuous work of more than 80 SME members who should understand their involvement and commitment as the main driver of excellence and growth of the cluster community. From **IDEAM**, we will continue to build on the effort of those who are part of this exciting project and to support our members to collaborate, innovate and grow by unlocking new opportunities and projects that continue to enhance the competitiveness of the advanced manufacturing eco-system in Ireland.

We would like to personally thank all the steering board members for their contributions over the last year and for their continued support of **IDEAM** moving forward.

We look forward to working with you all in 2022.

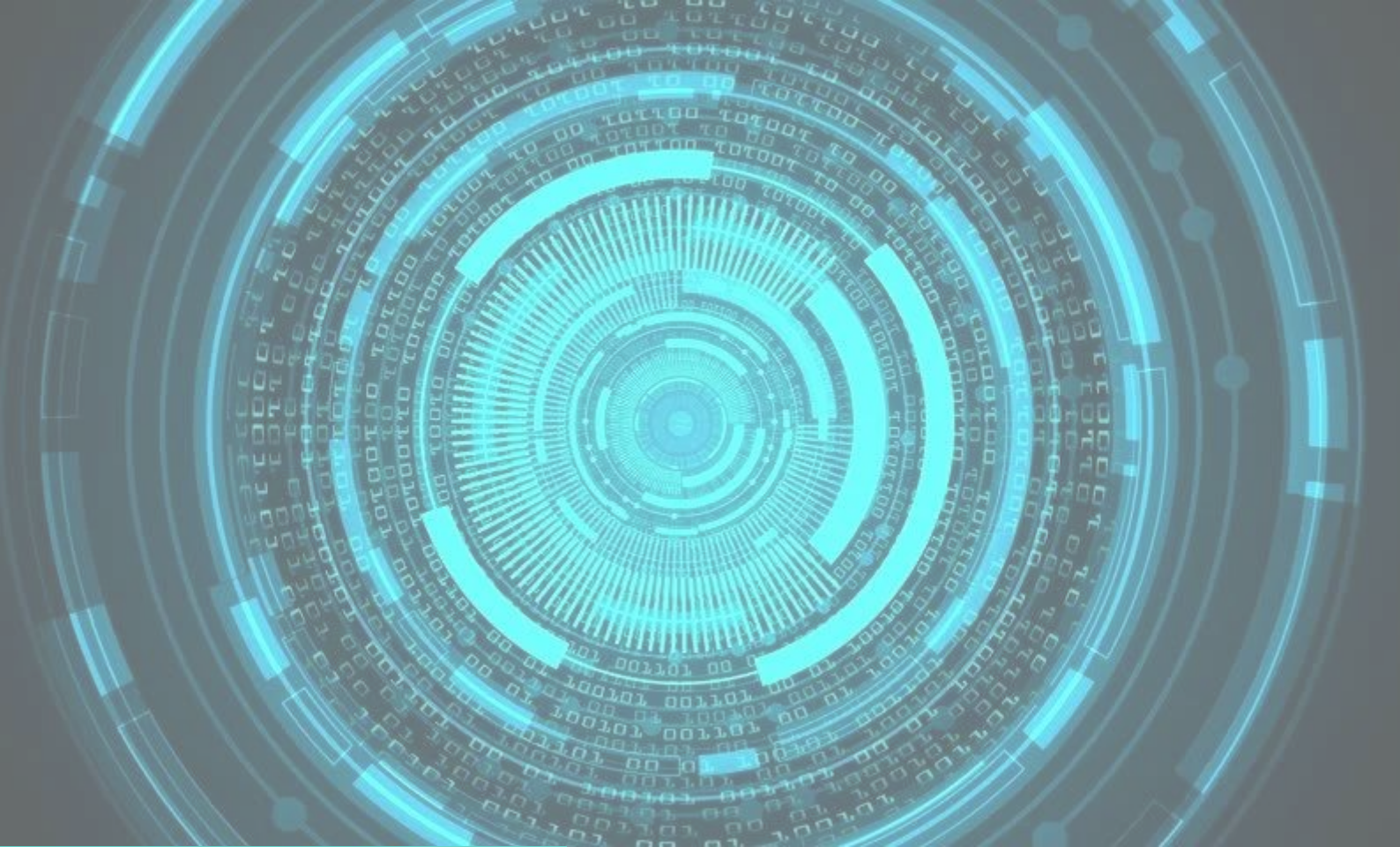
Thanks to all of you!

Dr. Jamie Meehan

Cluster Manager, **IDEAM**
jamie.meehan@ideam.ie

Ms. Katrin Weittenhiller

Research Fellow, **IDEAM**
katrin.weittenhiller@ideam.ie



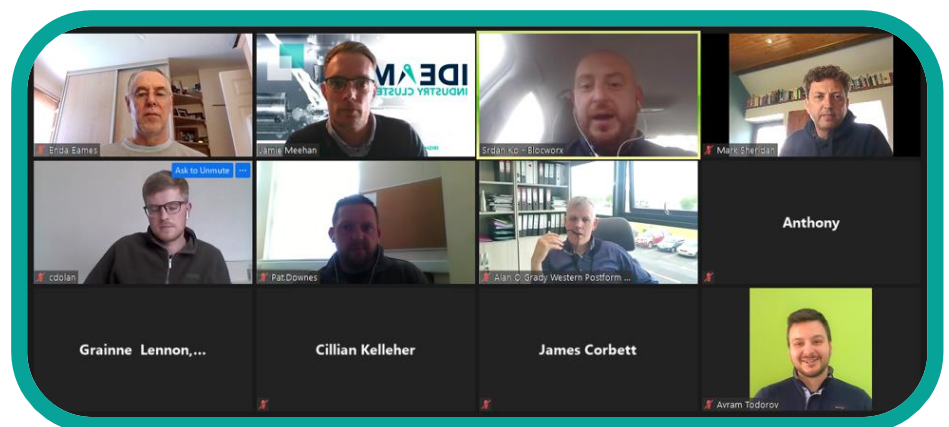
IDEAM Cluster at a Glance



- 303 Registered Users of which 86 SMEs, 4,140 Jobs and approx. €584,477,593.20 SME Total Annual Turnover
- Certificate in Leadership in Digitisation of Manufacturing (L9, 10 ECTS) - €80,000
 - Started 14-10-2021 - 15 firms registered (Feb 2022 Second Intake)
- Active Consultancy Projects between TUS:MM Students and 3 IDEAM Members
- 270+ registrations on EU IN4.0 Interreg Atlantic Area Smart Manufacturing Programme
- €24,000 IDEAM Research Masters
- €30,000 EU I4MS Change2Twin funding with 3 applications for €90,000 Deployment Voucher
- Co-creation between members e.g. Grattan Computers and Total Precision €30,000 Digitalisation of Production Process
- Action Point & DPF Engineering €12,500 Digital Acceleration Project
- All Island Engineering Cluster Alliance development
- Lobbying Policy – 3 Reports
- £250,000 IntertradeIreland IMPACT Programme Feasibility with 4 Members
- Explore Engineering, LimerickforIT & PTMA Collaboration Support
- National Manufacturing & Supply Chain Expo 23/24 November – IDEAM Keynote and 2 panel discussions with 7 IDEAM Members
- Digital Maturity Self Assessments with 27 IDEAM Participants (ActionPoint & IDEAM Digital Tools)



- Cybersecurity Risk Assessment synergy with Numata for all IDEAM Members
- 60+ Workshops and Events with over 5,374 engagements
- IDEAM & IMR Digital Transformation and Precision Engineering Workshop with 4 Members
- 3 Enterprise Ireland €9,000 Digitalisation Vouchers to date with 4 in development (14 members supported to be registered as digitalisation advisors)
- 18 Research and Development Company Site Visits
- Strong Digital Marketing Community with 1200+ followers, 55,000+ impressions and 460+ subscribers
- 100+ International Cluster Connections
- 8 EU International Projects to support Green & Digital Transition of SMEs – 4 Pending Approval
- Members Exploring Internationalisation Opportunities to Mexico collaboration with CLAUT
- 15 Digital Best Practice Case Studies
- Keynote at National & International Events
- CONFIRM & IDA Advanced Manufacturing Centre Synergy Meetings
- University of Strasbourg, France Cluster Masterclasses
- 7 Industry, 3 Academia, 2 Government and 1 IDEAM Representative on Steering Board





Testimonials

[Watch this 1 Min Quick Clip](#)



Croom Precision Medical:

We aim to enhance our competitiveness through the digitalisation of our manufacturing processes. By joining IDEAM, we have unlocked new and invaluable opportunities for CPM concerning funding opportunities, international collaborations, R&D projects, networking, and support for our digitalisation efforts. We are delighted to be part of the IDEAM Cluster community and their team!

Nightingale HQ:

IDEAM Cluster is Ireland’s newest network supporting manufacturing SMEs with their business growth with initiatives around training, R&D, funding and business development. Great networking, super easy to join and it’s growing fast. Connecting people who can collaborate and solve problems has the single biggest impact on a small company like ours. IDEAM Cluster provides this in abundance, and I would recommend it to any business in the industrial space.

Total Precision:

We at Total Precision feel that digitisation is the ONLY way forward for machining, and having spoken with Jamie and heard his proposals, it’s obvious that joining IDEAM is the best vehicle to be onboard to enhance our journey for digitalisation. It is refreshing to hear IDEAM & Jamie’s plan for digitisation.

WAZP:

IDEAM is a fantastic opportunity to prove that Ireland is an innovator and a world leader in advanced manufacturing including Additive Manufacturing. With Jamie’s experience and previous success, I have full confidence that together with IDEAM we will achieve its objectives. The team is really enjoying working with the cluster. If you are in the manufacturing space and you have not yet joined up to the IDEAM Cluster, you should. In a short space of time, Jamie has brought us a wealth of opportunities.

Cantec Group:

As developers of software and technology to seamlessly digitise the finance and administration process of every manufacturing environment, we are proud to be part of the IDEAM Cluster. The collaboration between members provides opportunities and exposure to new trends that increase productivity and competitiveness. IDEAM delivers the ideal platform to teach, learn and share and provides tremendous support to the Cantec Group.

ActionPoint:

Collaborating with IDEAM has helped ActionPoint work towards our mission to help companies achieve their greatest potential using the power of technology. Thanks to IDEAM, we have been able help its cluster members to learn more about digitally transforming their business and how to do so successfully. Our Digital Maturity Self-Assessment (DMSA) allows organisations to determine their current standpoint on their Digital Transformation journey. This collaboration has also allowed us to compile these findings into an in-depth report on Digital Transformation within the manufacturing industry as a whole. This will be an invaluable benchmarking resource for industry.

Thormac:

As the owner of an SME, I believe that it is crucial to the future of Thormac that we embrace new ideas and technologies to improve our competitiveness and relevance to our customers. I believe that this is best achieved by collaborating with other likeminded SMEs. IDEAM creates the perfect platform for this collaboration.

EC Precision:

Working closely with IDEAM and clusters worldwide will enable us to build a multinational network and help businesses to prosper.

Takumi Precision Engineering:

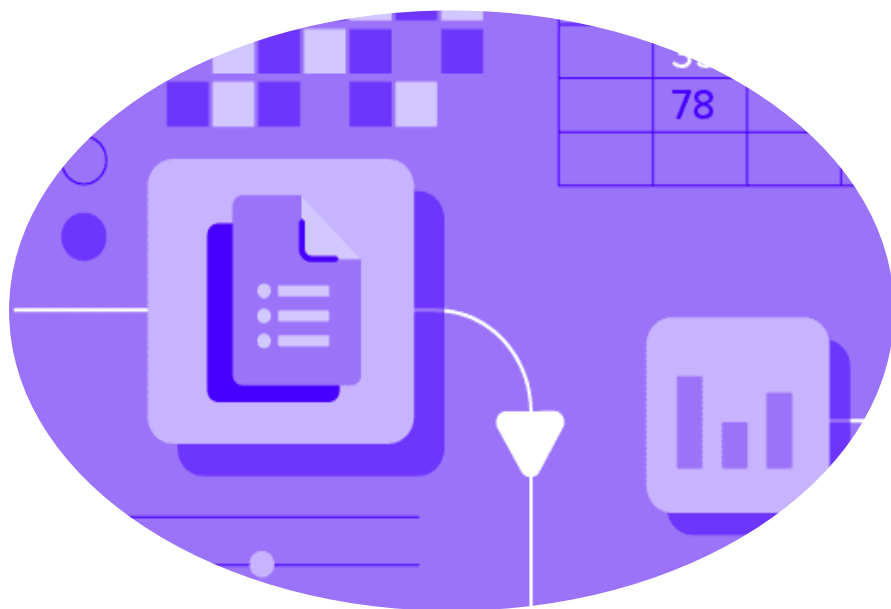
Working with IDEAM Cluster, we would like to explore the digital gaps in our business and how to improve on these.

Pressure Welding Manufacturing:

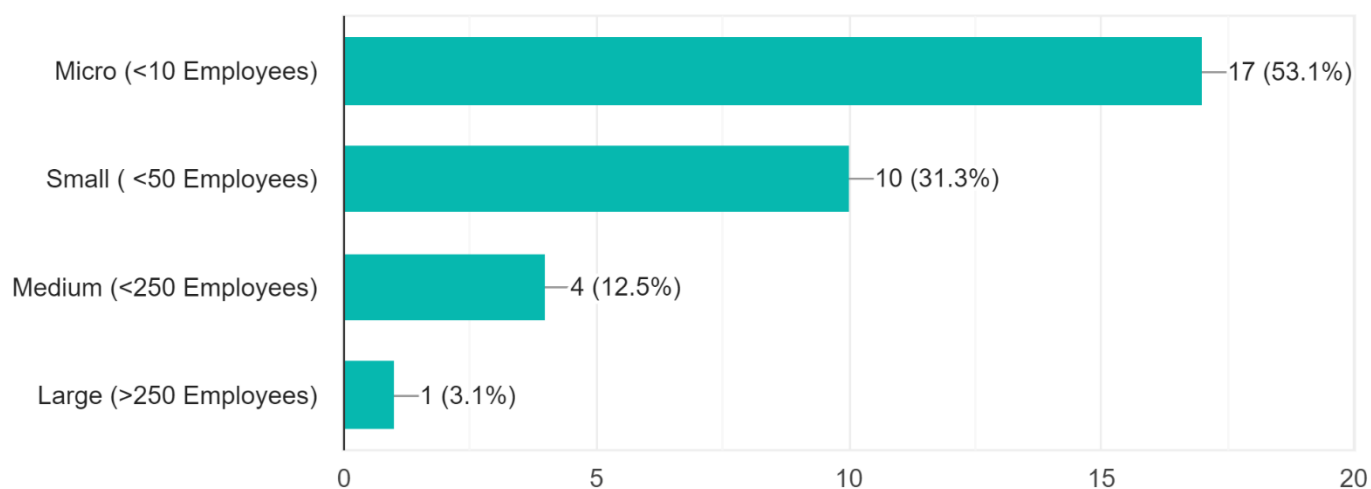
Being a part of the IDEAM Cluster exposes us to the incoming trends and best practices being used internationally, as well as connecting in with other likeminded companies. IDEAM can help to expose best practices being used, emerging trends and knowledge share from other manufacturing companies. It is clearly something heavily leveraged in other countries and the benefits have been proven in terms of GDP creation. IDEAM will be a great benefit to SME’s looking to stay competitive in a rapidly changing technological and digital environment. The cluster can be an excellent resource for SME’s who because of size are always playing the balancing act of keeping up with trends to remain competitive but not utilising new technologies or digitisation that isn’t going to bring real value.



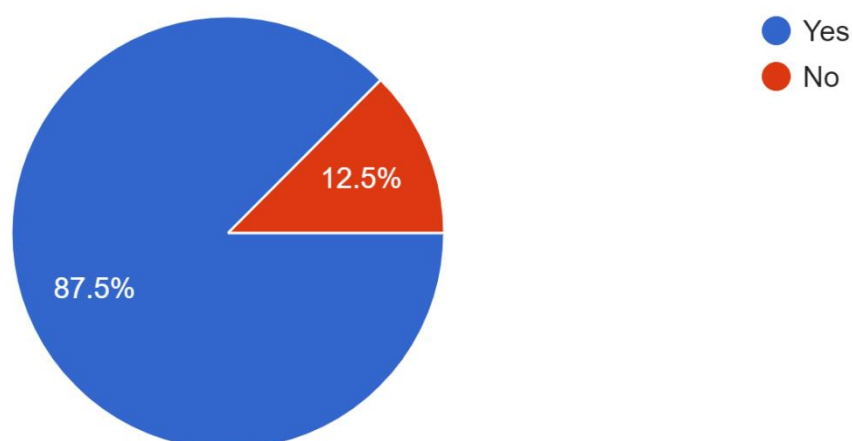
Survey Findings



Organisation Size



Have you engaged with the IDEAM Cluster over the past 12 months?



If yes, please provide a short explanation of how IDEAM has benefited your organisation.

(sample of responses)

Jamie has been incredibly proactive in bringing opportunities to us at Cantec Group across funding, exhibitions and networking. It has been a really positive experience in 2021 and we hope to further explore collaboration in 2022.

Newly joined but IDEAM already advised me to get on the Enterprise Ireland Advisor's list.

It has allowed me to network with some big names in the industry.

Setup as a Digitalization advisor, intro to like minded companies

Understanding the nature of cluster collaboration, seeing and understating the challenges facing other companies and how they are adapting new technologies and innovations.

Awareness of who Numata is and what services we offer

If no, please provide a short explanation of how IDEAM could provide value to your organisation.

Introduction to other small businesses in the region

Nothing yet but plan to be more involved in 2022

It would benefit Slaney precision progressing industry 4 to a higher level

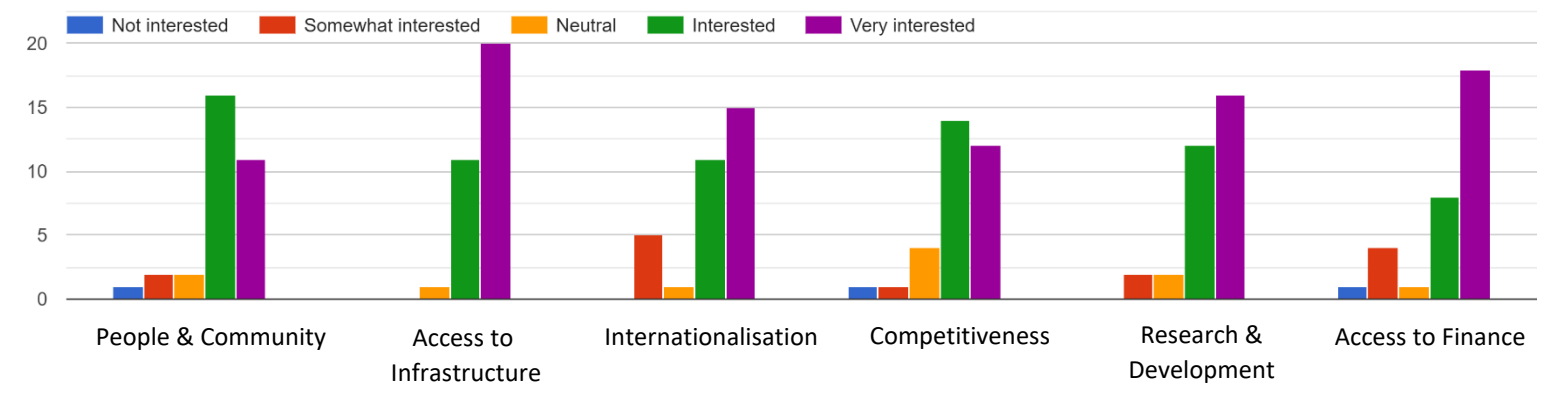
n/a

Keep up the online events and cover areas like - Choosing an ERP, what next? or practical Quick Wins to help you run a better operation etc. Perhaps at the beginning of the year, crowd source topics and ideas from members to do a 6 part series. You could even get members to vote their top 5 out of 10 content ideas.

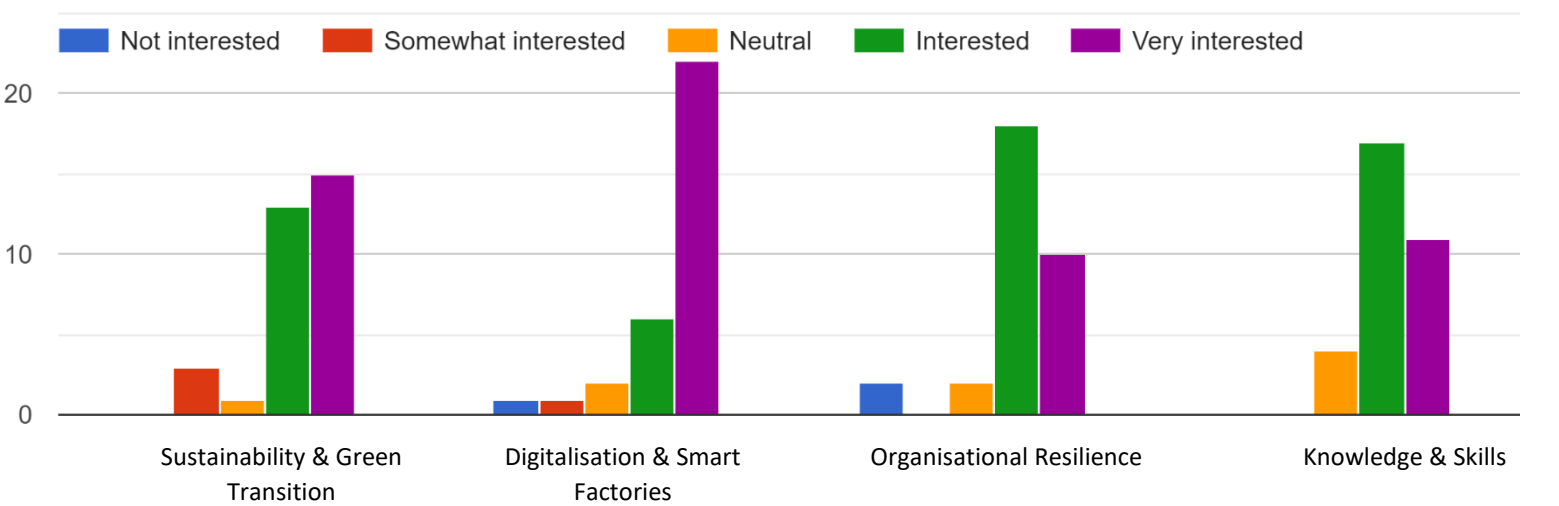
Opening up new markets bringing in larger volumes of work and project collaboration

I am part of an organisation within Engineers Ireland that promotes Maintenance and Asset Management and I am interested in Local Industry developments.

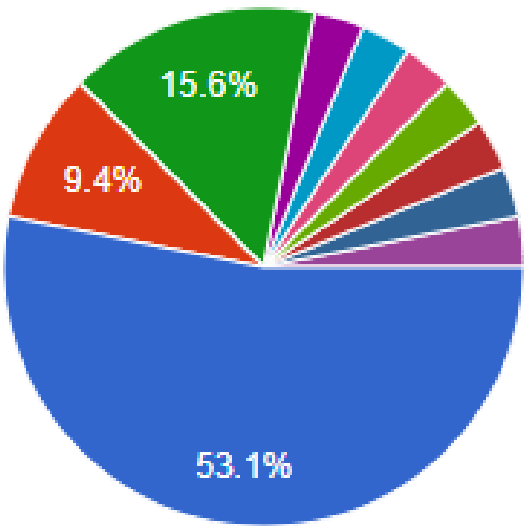
Please indicate your organisation's level of interest in the following strategic initiatives:



Please indicate your organisation's level of interest in the following strategic working groups:



The IDEAM Cluster will implement a sustainability model in 2022. Please choose from the following membership model options?



- Annual membership fee

● Sponsorship

● Service-based fee

● Commission-based project fee

● Would be happy to explore a blend of...

● Monthly recurring subscription

● I need more time to explore as I am s...

● We're a startup with no money. Perha...
- Annual membership. Would like to discuss sponsorship also.

● N/A

● Free to Funding agencies who collaborate with the cluster to benefit the IDEAM Members through generous grant aid

Have the final say! Do you have any additional points or comments to add?

Have the final say! Do you have any additional points or comments to add?

15 responses

Looks like some good work is under consideration. Would welcome to be part of this journey with IDEAM and other organisations.

Well ran group and looking forward to collaborating more in 2022

Not for now.

Jamie is doing a fantastic Job as the cluster manager, his proactiveness to support each member is highly commendable. Keep up the great work and Im looking forward to the partnership in 22.

Looking forward to physical event post-covid

Looking forward to learning and exploring and contribution for the bigger picture :)

Thank you to Jamie Meehan & IDEAM, he has been a breath of fresh air with his knowledge & enthusiasm, great to be working with him!

Continued success with all projects

Congratulations for the great work done until now, and best wishes for the future.

The WAZP team is really looking forward to continuing and growing the partnership with IDEAM.

Keep up the good work, in a short space of time and with a small team, you have made a big mark. Well done.

Great initiative built on collaboration...important to build on initial momentum

I would just like to thank Jamie and his IDEAM team for all the support they have provided us in 2021 and look forward to strengthening our relationship in the coming years.



IDEAM Cluster Value Proposition



Value Proposition

Clusters are collaborative engines for driving economic recovery, renewal and resilience whilst supporting business growth opportunities focusing on ‘connecting people and connecting communities’. The IDEAM Cluster is an industry-driven cluster organisation that brings together industry, academia and government to represent the needs of the advanced manufacturing sector in Ireland. In the past 20 years, clusters and cluster initiatives have become a key component in utilising the strengths of national and regional competitiveness strategies. Cluster programs and initiatives are today established in all developed and in many developing countries.

The Technological University of the Shannon: Midlands Midwest was awarded the maximum allocation of €406,520 from the €4.6 million Regional Technology Cluster Fund (RTCF) to build the IDEAM Cluster. The RTCF is a fund that provides a platform for engagement between enterprise and regionally based academic institutions to drive productivity and competitiveness in and across the regions. Under Project Ireland 2040, this fund is administered by Enterprise Ireland on behalf of the Department of Business, Enterprise and Innovation. At an economic level, the impact of the IDEAM Cluster will be the retention and attraction of 2,000 jobs and support more than 75 manufacturing SMEs in digital transformation and Industry 4.0.

OUR MISSION

Digitalisation, Collaboration, Growth

Support the digitalisation and growth of the manufacturing sector in the region through collaboration, interconnection and synergies between government, academia and companies.

Competitiveness, Productivity, Internationalisation

Promote a high degree of competitiveness, productivity and internationalisation in the digitalisation and sustainable growth of manufacturing SMEs, contributing to the economic growth of Ireland.

OUR VISION

OUR VALUES

Trust, Collaboration, Innovation, Growth

People & Community

Training & Skills Expertise
Trustful Connections
Industry Site Visits
Achieve goals together;
difficult to achieve alone

Access to Finance

Funding Programmes
Grants
EU Supports
1-to-1 Funding Clinics

Research & Development

Firm Growth
R&D Opportunities
Industry Benchmarking
Lobbying Activities
Digital Maturity

Competitiveness

Digital Marketing Promotion
Strategic Projects
Industry Market Reports
SME Digital Best Practices

Supporting Advanced Manufacturing SMEs with their Business Growth

Access to Infrastructure

Meetings & Events
Conferences & Alliances
Networking
Digitalisation Workshops
Matchmaking

Internationalisation

Lower Costs & Route-to-Market
Co-opetition & Exporting
International Cluster Exchanges



DR. JAMIE MEEHAN

Cluster Manager

Educational and Outreach
IDEAM Cluster

"Industry must be at the pinnacle of what the cluster is trying to achieve with the backing of the three pillars – industry, academia and government. The global industry is growing unprecedentedly and now is the right time to make the Mid-West region and Ireland a world-class one-stop-shop that will assist Manufacturing SMEs in all aspects of digital transformation and Industry 4.0. An advanced manufacturing and IN4.0 digital transformation cluster can pioneer Ireland on an international scale to attract start-ups, investments and develop indigenous SMEs in this sector, but everyone must work more collectively and build trust. The right people at the heart of the cluster will help to ensure its added value, sustainability and impact".

- ▶ PR & Industry Outreach
- ▶ Access to Funding
- ▶ Access to Collaboration
- ▶ Business Development
- ▶ Internationalisation & Export

“Ireland’s potential is being truly recognised through the IDEAM cluster. It’s a wonderful platform and community for innovators, and for Dynamic Innovations, IDEAM has provided valuable connections leading to possible synergies for real commercial business.



Kieron Swords
Dynamic Innovations CEO
dynamicinnovations.ie

IDEAM
INDUSTRY CLUSTER

Collaboration | Innovation | Growth

www.ideam.ie

Value of IDEAM Cluster to WAZP



PR & Industry Outreach

Access to Funding & Collaboration

Business Development Opportunities

Internationalisation & Exporting



Shane Hassett
CEO at WAZP
www.wazp.io

“IDEAM is a fantastic opportunity to prove that Ireland is an innovator and a world leader in advanced manufacturing including Additive Manufacturing. With Jamie’s experience and previous success, I have full confidence that together with IDEAM we will achieve its objectives. If you are in the manufacturing space and you have not yet joined the IDEAM Cluster; you should. IDEAM and Jamie have brought us a wealth of new opportunities”.

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Collaboration | Innovation | Growth

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INDUSTRY CLUSTER

ENTERPRISE
IRELAND



Rialtas na hÉireann
Government of Ireland

TUS

Value of IDEAM Cluster to Grattan Computers and Total Precision

PR & Industry Outreach
Access to Funding & New Collaborations
Business Development Opportunities

grattan
YOUR SYSTEMS INTEGRATORS



Frank Walsh
MD
Grattan Computers
www.grattan.ie

“Being part of IDEAM has exposed our company to many potential clients. Jamie has introduced us to many companies that are interested in the services we provide and has accelerated our sales process”

Being members of IDEAM has exposed both companies to the fantastic opportunities that are available in their respective markets

TOTAL
PRECISION
Engineering Solutions



Niall Brennan
Operations Manager
Total Precision
www.totalprecision.ie

“IDEAM introduced us to Digitisation and to Grattan, who will implement Digitisation in our factory. This is an untapped area and will make our machining process proactive rather than its current reactive state, in turn making us more efficient and a LEAN manufacturing plant. Thank you, Jamie, as without IDEAM this would not have happened. To be honest, I don’t know why ALL machining shops are not on the Digitisation journey”

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Governance

The IDEAM Cluster governance structure consists of the IDEAM Cluster Manager and the IDEAM Steering Board which brings together key stakeholders from the triple helix framework (industry, academia and government).

Role of the IDEAM Cluster Manager

The IDEAM Cluster Manager evaluates the impact of digital transformation on businesses located within the cluster as well as encourages strong collaboration between firms and engaging actors in the design of the digital transformation strategy of cluster members.

Role of the IDEAM Cluster Steering Board

The IDEAM Steering board is an advisory board that comprises 13 members including the cluster manager and representatives from industry, academia as well as government (triple helix framework). The IDEAM steering board aims to provide advice and direction to the cluster manager as well as enhance the development and evolution of the cluster.

STEERING BOARD MEMBERS



DR. LIAM BROWN

Vice President

Research, Development & Innovation
Technological University of the
Shannon: Midlands Midwest



TOMÁS Ó SÍOCHÁIN

CEO

Western Development Commission



DR. JAMIE MEEHAN

Cluster Manager

Educational and Outreach
IDEAM Cluster



VIVIAN FARRELL

CEO

Modular Automation



DR. JOHN COSGROVE

Head of Graduate Studies

Technological University of the
Shannon: Midlands Midwest



RUTH KEARNEY

Commercial Director and Co-Founder

Nightingale HQ



JERRY MOLONEY

Regional Director, Mid-West

Enterprise Ireland



GREG TUOHY

CEO

Cantec Group



GERRY REYNOLDS

Managing Director

Takumi Precision Engineering



PATRICK BYRNES

CEO

Croom Precision Medical



SEAN RYAN

Managing Director

Thormac



CIARAN O'LOUGHLIN

Lecturer

Technological University of the
Shannon: Midlands Midwest



SINÉAD O'DWYER

Managing Director

Pressure Welding Manufacturing

A

ABAMobile
ABB
ActionPoint
AOL
Ascent

B

B EYE
Berka Solutions Ltd
BioMarine International Ltd.
BizGearbox
Blocworx
BS&B Safety Systems

C

Cantec Group
Caragh Precision
CHL Engineering
Chronos Consulting
CIM
CMP Solutions
Comply Radar
Computer Technology Service
Croom Precision Medical
Cyient

D

Dairymaster
Dawnlough Ltd
DesignPro Automation
Digital Lean Solutions
DogNotDuck
DPF Engineering
Drew Labs
Dynamic Innovations

E

EC Precision Ltd
Element 6
Elk Electronics
Embassy of Belgium Trade Section
EPS Group

F

Fort Wayne Metals

G

Gallarus Industry Solutions
Glynn Technical Diamonds

Grattan Computers

H

Hexagon Manufacturing
Intelligence

I

Improve Academy
Integro Technologies Ltd
Intertrade Ireland
IOT-WORX

J

Jellyfish Technologies

K

KUKA
Kyzentree

L

LBS Partners
Lean ERP Services
LISK Ireland
Lufthansa Technik Turbine
Shannon

M

Metal Plasticity & Additive
Manufacturing Group
MicroChip Technology
Midland Steel Reinforcement
Supplies
Mincon
Modular Automation

N

N&E Precision
Nightingale HQ
Numata Business IT

O

Ocean Digital Marketing
OEESystems International
ON Semiconductor Corporation

P

Panalok
Park Electrical Services
PB Machine Tech Ltd.
Photography for Industry

POA Enterprises
Premier Machine Tools
Pressure Welding Manufacturing

Q

Quantum3

R

ReaDI-Watch
RML Marketing and Business
Development Solutions

S

Schivo Medical
Shannon Precision Engineering
Shortt Stainless Steel
Simvirtua
SL Controls
Slaney Precision
Smart Electronics Ltd
Smart Factory Solutions Ltd
Smart Office
Stryker
Stryve

T

Takumi Precision Engineering
Thormac
TmsTuneup
Total Precision Engineering Ltd.
Tullamed Ltd.

U

Unison Process Solutions
UtilityAR

V

Valserv

W

Ward Automation
WaterMan Group
WAZP
Western Development
Commission
Western Postform Ltd.
WuXi Biologics

Z

Zimmerbiomet



Funding



Direct Projects and Funding

To date, IDEAM has facilitated and supported numerous industry collaborative projects with €164,500 in ‘Direct Projects and Funding’:

- IDEAM Research Masters up to the value of €24,000
- Springboard+ course Certificate in Leadership in Digitalisation of Manufacturing funded approx. €80,000
- I4MS EU (European Union) Change2Twin Digital Readiness Projects €30,000 by 3 Manufacturing SMEs (€10,000 each)
- DPF Engineering & ActionPoint Digital Acceleration Project - €12,500 (€9,000 of which is the digitalisation voucher)
- Unison & LBS Partners were collaborating on the €9,000 digitalisation voucher
- NightingaleHq & Midland Steel were collaborating on the €9,000 digitalisation voucher

8 EU Funding projects have been submitted with 50+ international cluster organisations, research centres, industry participants and HEIs. The total value (*if approved*) of €11,024,135.08 with €876,957.84 to IDEAM and to support our members.

- Regrouping European Clusters in a Partnership of Excellence for Mobility - **RECiPE4Mobility** - €2,000 cluster training (Unsuccessful bid)
- ClusterXchange – **dhINNOVe** - €537,027 with €107,740 to IDEAM (Unsuccessful bid)
- COSME – **ALL4TEX** - € 2,486,839 with €230,463 to IDEAM (Unsuccessful bid)
- ERASMUS+ - **ADDTEX** - €1,500,000 with €188,470 to IDEAM (Pending)
- ERASMUS+ - **Small Scale Partnerships** x 2 submissions - €60,000 with €36,494 to IDEAM (Round 2 Pending)
- EUROCLUSTERS Open Strand - **xBUILD-EU** - €1,438,886.58 with €74,215.84 to IDEAM (Pending)
- HorizonEU - **In-Transit** - €4,999,382.50 with € 237,575.00 to IDEAM (Pending)

4 InterTradeIreland IMPACT £250,000 Programme Projects at Feasibility and Testing stage

3 €90,000 I4MS EU Change2Twin Deployment Vouchers of Digital Twinning Submitted and awaiting approval

ENTERPRISE IRELAND
where innovation means business

**Advanced Manufacturing
€9,000 Digitalisation
Voucher**

**IDEAM
INDUSTRY CLUSTER**

Apply Now:
<https://www.enterprise-ireland.com/en/Productivity/Digital-Innovation/Digitalisation-Voucher/>



Figure 1: partners and countries involved in ADOTEX project.



Figure 2 – Representation of the ALL4TEX partnership with 10 clusters, a technology centre, the represented sectors and the bridges to be built to create SMEs alliances

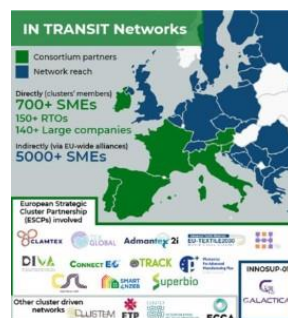


Figure 1: Mapping of dhINNOV project partners

ITI | IMPACT
Game changing support for game changers

**IDEAM
INDUSTRY CLUSTER**

**TAKUMI
PRECISION
ENGINEERING**

InterTradeIreland
Discover what's possible

Participants: Jamie Meehan, Kevin Dardis, Donal Galligan, Gerry Reynolds.

ITI | IMPACT
Game changing support for game changers

**IDEAM
INDUSTRY CLUSTER**

WAZP

InterTradeIreland
Discover what's possible

Participants: Jamie Meehan, Kevin Dardis, Shane Hassett, Stephen Barry.

**IDEAM
INDUSTRY CLUSTER**

**cantec
GROUP**

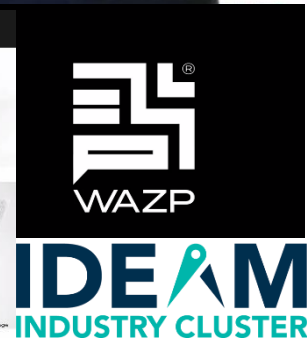
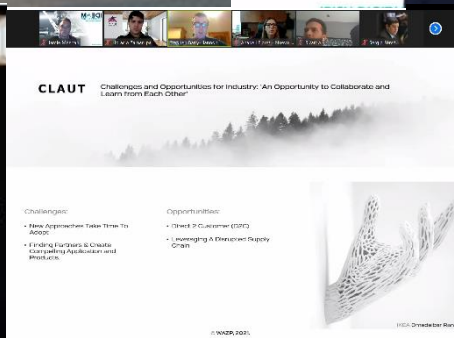
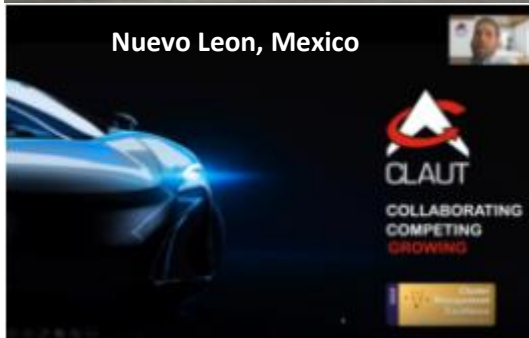
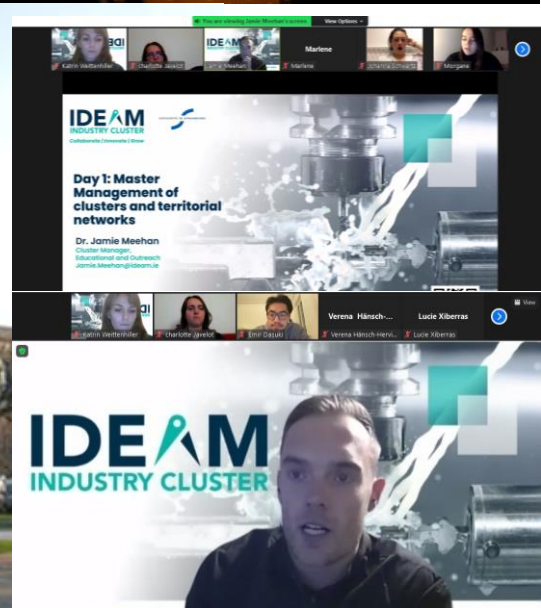
InterTradeIreland
Discover what's possible

Participants: Jamie Meehan, Kevin Dardis, Donal Galligan, Gerry Reynolds.



Internationalisation







STRATEGY TOOLS

Global Cluster Leadership Program



Recording

You are viewing Roberto Chaverri's screen

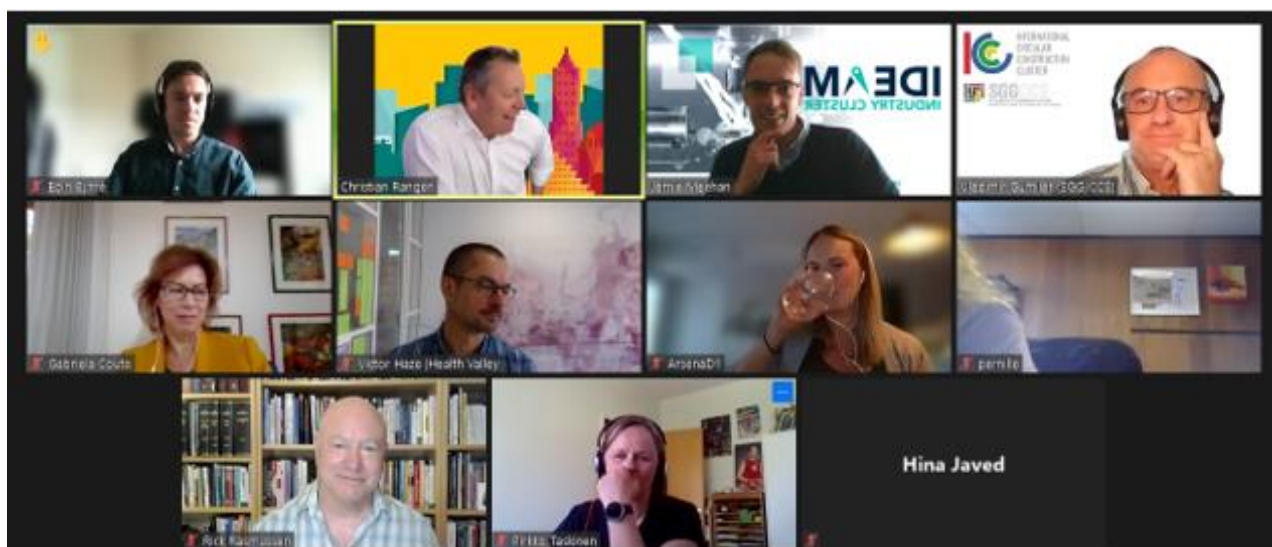
View Options

The shared content is fit to your screen. To see the original size, click "Original size" in the menu.

ST academy

GLOBAL CLUSTER LEADERSHIP PROGRAM

LIVE MONTHLY DIGITAL WORKSHOP – Feb 2021

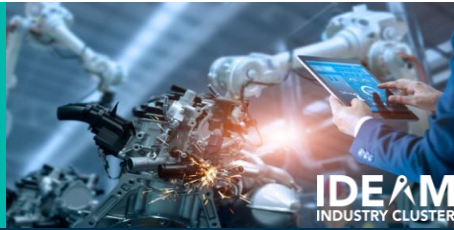




Talent and Skills



Certificate in Leadership in Digitisation of Manufacturing (Level 9)



FEES: The overall fee for this programme is €1,300. Applicants in employment will qualify for 90% Springboard+ funding and the 10% fee to be paid will be €130. Applicants on a qualifying DEASP payment will qualify for 100% funding.

Apply Now: <https://springboardcourses.ie/details/9088>

The programme will be a research-informed evidence-driven series of Challenge Workshops, delivered as online seminars over 10 weeks, and the focus will go beyond the discussion of technology solutions to business value and new business models and skillsets.

Each seminar will address a specific Challenge Topic, such as; Digital Maturity, New Business Models, Data Acquisition and Visualisation, Data Analytics and Artificial Intelligence, Smart Maintenance, Smart Industrial Control Systems, Collaborative Robotic Systems, & Digitalisation of Production.

Further Details:

Nicola Kelly
Springboard@lit.ie
+353 61 293094

Department of Electrical & Electronic Engineering

MODULES

- ❖ Digitalisation of Manufacturing: Challenge Seminar Series (Level 9 - 5 ECTS)
- ❖ Digitalisation Case-Study: Industry-based Practical (Level 9 - 5 ECTS)

Application Open

Start Date
Oct 2021

End Date
16/12/2021

Course Duration: 10 weeks | Online Delivery | 10 ECTS Credits | Second Intake: Feb 2022

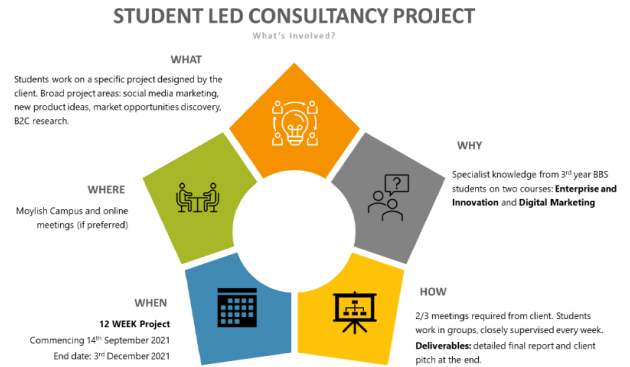


Industry Opportunity: Student-led Consultancy Project

Under the Department of Marketing, Enterprise & Digital Communications at Technological University of the Shannon: Midlands Midwest – Limerick Campus in collaboration with the IDEAM Cluster, we have an excellent opportunity for industry. Do you want support with specific aspects of your business? Do you want research or analysis done to help with your *digital marketing*, *business strategy* or *growth opportunities*? If so, then we have the solution for you!

Work with TUS BBS undergraduate students on a 12-week research and consultancy project of your choice.

What's Involved?



Interested in hearing more? Contact Sharon Lucey, Lecturer in the Department of Marketing, Enterprise and Digital Communications, TUS at Sharon.Lucey@tus.ie to find out more.

Industry Consultancy Project

The IDEAM Cluster in collaboration with the Department of Marketing, Enterprise & Digital Communications at Technology University of the Shannon: Midlands Midwest provided the opportunity for cluster members to receive consultation services in the areas of digital marketing, business strategy and growth opportunities.



Smart Manufacturing for Industry
'A Free Online Training Opportunity to Upskill in the area of Smart Manufacturing and Industry4.0'
an IDEAM Cluster and IN4.0 Training Offering

Get IN4.0 Certified
End Date: 30th June 2021

Course 1: Fundamentals of Industry4.0, People and Change Management
Course 2: Digital Manufacturing Related Key Enabling Technologies (KET)
Course 3: Digital Factory: Manufacturing Intelligence for Engineering and Production

Register Now

Leadership in Digitisation of Manufacturing Year 2021/2022

IDEAM Cluster in conjunction with the Technological University of the Shannon: Midlands Midwest is delivering a Springboard+ funded Certificate in Leadership in Digitisation of Manufacturing (Level 9).

The 10-week online programme aims to highlight the value and potential of Digitalisation of Manufacturing as well as equip engineers and managers with the knowledge to drive digital transformation in their companies.

Each seminar addresses a specific Challenge Topic, such as; Digital Maturity, New Business Models, Data Acquisition and Visualisation, Data Analytics and Artificial Intelligence, Smart Maintenance, Smart Industrial Control Systems, Collaborative Robotic Systems, & Digitalisation of Production. The programme will have a second intake in February 2022.



MODULES

Digitalisation of Manufacturing: Seminar Series

Digitalisation Case-Study: Industry-based Practical



ABOUT MTU STUDYING AT MTU

Monday, 17 May 2021

[Back to news](#)



Free Training Opportunity: Upskill in Digitalisation

The IN4.0 Interreg Atlantic Area project, Munster Technological University and the IDEAM Cluster have partnered to offer a free online training opportunity for upskilling of firms, employees and students keen to develop their knowledge in the area of Smart Manufacturing and Industry 4.0.

Just as it is changing the way we live our lives, Digital Technology has the power to revolutionise the way we do business, enabling organisations to increase productivity, tap into new markets and boost profitability as economies globally are facing the varying challenges of Covid-19.



Research and Development



LIT Postgraduate Research Bursary Award Programme Academic Year 2021/2022

IDEAM in conjunction with the Technological University of the Shannon: Midland Midwest put forward a proposal for an innovative research project which has qualified for the LIT Postgraduate Research Bursary Award. The research project is titled: 'Examining the Impact of Clusters on Economic Growth and Entrepreneurship in European Regions: An Employment-based Methodology with the Irish Digital Engineering and Advanced Manufacturing (IDEAM) Cluster'. The research focuses on measuring the impact and influence of clusters on economic growth and entrepreneurship activity, through case study learnings and benchmarking activities. The Award provides financial support for fees and a monthly stipend toward the completion of a Masters to the amount of approx. €24,000 over a 2-year period.



R&D Activities with Member Companies

Sign up before the 31st January 2022 for a Cybersecurity Risk Assessment

Scan the QR code below to complete the submission form and to read further information on this offer. Once you have submitted your details you will be entered into a lucky draw to

win an Apple Watch Series 6!

*Terms and conditions apply

This unique offer is only available to IDEAM members at a reduced fee of €99 and expires on the 31st January 2022!



IDEAM
INDUSTRY CLUSTER

Numata



"It's no longer the big beating the small, **but the fast beating the slow.**"
Eric Pearson, CEO Intercontinental Hotels Group

Explore Your Digital Future
Complete the Digital Maturity Self-Assessment

6 Digital Dimensions
5 Minutes of Your Time
1 Game-Changing Report
Digital Business Growth

Why complete the Self-Assessment?
Once you complete your self-assessment, you will receive a Digital Maturity Self-Assessment report for your business.

The full report contains the following:

- ▶ An individual score on each of the 6 Digital Dimensions
- ▶ Recommendations on how to progress your Digital Transformation initiatives.

Start your Digital Maturity Assessment:
www.actionpoint.ie/digital-maturity-assessment/

ActionPoint

In partnership with

IDEAM
INDUSTRY CLUSTER



All Island Engineering Cluster Alliance meeting

Technological University of the Shannon: Midlands Midwest Limerick Campus

IDEAM
INDUSTRY CLUSTER

atimcluster
Advanced Technologies in Manufacturing

engineering the south east

AgriTech Ireland
Agriculture & Food

north east engineering

KILLYBEGS MARINE CLUSTER

MANUFACTURINGNI

LINC
Engineering Network

Office Partner Area Local Enterprise Office Donegal

Iboc Networks

BORMAC
Borealis

MEGA
Manufacturing Engineering Group

IDEAM
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SME Digital Best Practices and Case Studies

WHITE PAPERS

Study on digitalisation of the manufacturing sector and the policy implications for Ireland

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2021 Cluster Building

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Developing our Cluster Business Model

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Cluster Lifecycle

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Cluster Managers

[Download pdf](#)

Clusters vs Networks

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Smart Manufacturing and Industry Skillsets

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IDEAM goes International at TCI Global Cluster Conference 2021

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CLUSTER MEMBER CASE STUDIES

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TAKUMI
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TOTAL
PRECISION
Engineering Solutions

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Croom
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cantec
GROUP

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IDEAM Members Collaborating (Sample)



Precision Engineering Digitalisation

Invited only - Working Group

Irish Manufacturing Research, National Science Park, Mullingar

1st October 10 am – 3 pm

IDEAM Technology View focused on Digitalisation for business

IRRI overview and Digitalisation Overview

DEC Software and Data Visualisation

In Partnership with:

IDEAM
INDUSTRY CLUSTER

Collaborate | Innovate | Grow

Lobbying Policy Activities



TU WG 4 (Engagement) – Draft Report May 20th 2021

Regional Clusters Policy and Design Thinking & Creativity Hub

Objective(s)

- Strengthen the governance, organisation and operational capacity of AIT-LIT to engage with our Regional Cluster partners
- Develop a distributed Design Thinking and Creativity Hub model across AIT-LIT, in collaboration with our Regional Cluster partners

INNOVATE



An Roinn Fiontar,
Trádála agus Fostaíochta
Department of Enterprise,
Trade and Employment

National Clustering Policy and Framework

Department of Enterprise, Trade and Employment

Developing a Shared Vision – Session 1

19th October 2021

Innovate Limerick Growth Strategy
2021-2025



Defining clusters

Secondary Definitions

Linkages	Source
Option 1 A method to agglomeration involving sequentially combining or grouping clusters with similar characteristic into larger clusters.	<i>Data Science</i>
Option 2 Linkages with firms and other organisations in the locality which are critical to enhancing the competitiveness and productivity of a firm.	<i>IDEAM</i>
Networks	Source
Option 1 A set of connections among a multiplicity of separate entities sharing a common characteristic. Networks can be described as alliances between firms, which work together towards an economic goal. They can be established between firms within clusters, but also exist outside clusters.	<i>IDEAM</i>
Option 2 A set of connections among a multiplicity of separate entities that make them appear to be operating as a single entity within the environment	<i>Data Science</i>

Defining clusters

Secondary Definitions

Partnership	Source
Option 1 Formal organised efforts to encourage clusters intensify collaboration across regions or sectors. Cluster partnerships pool resources and knowledge to work concretely together on joint strategies, often with a view to boosting economic growth and competitiveness.	<i>European Cluster Collaboration Platform</i>
Option 2 Linkages with firms and other organisations in the locality which are critical to enhancing the competitiveness and productivity of a firm.	<i>IDEAM</i>
Spillover	Source
Option 1 Complementarities that emerge among firms producing the same output that are located in close proximity. Complementarities, including knowledge and technologies, produced by one firm can be appropriated, at little cost, by other firms.	<i>IDEAM</i>
Option 2 Positive external effects in the form of technology or knowledge transfers for firms located within more productive clusters that are working in related activities.	<i>United Nations</i>



Rialtas na hÉireann
Government of Ireland





Business and Community



Click here: [IDEAM Video](#)



18 IDEAM Research and Development Site Visits (some photos)



IDEAM Events, Webinars and Tech Thursday's (Sample)



Launch Event



Tech Thursday: Change2Twin



Tech Thursday: Digital Manufacturing on a Shoestring



Tech Thursday: EU Funding Supports for SMEs



Tech Thursday: Digital Innovation for SMEs



MatchMaking #1



CyberSeries



Tech Thursday: Focus on R&D Tax Credits



Tech Thursday: Visualise your Manufacturing Floor Like Never Before



Tech Thursday: International Collaboration Opportunity for SMEs

NATIONAL MANUFACTURING & SUPPLY CHAIN CONFERENCE & EXHIBITION

SPONSORED BY **FANUC**

IDEAM INDUSTRY CLUSTER

Panel Discussion: 'Digital Transformation in Manufacturing'

IDEAM INDUSTRY CLUSTER | TAKUMI | Croom Precision Medical | NightingaleHQ | Numata | kyzentree

NATIONAL MANUFACTURING & SUPPLY CHAIN CONFERENCE & EXHIBITION

SPONSORED BY **FANUC**

IDEAM INDUSTRY CLUSTER

Panel Discussion: 'Brilliant Basics: Building Manufacturing Resilience with Data and AI- Manufacturing of the Future is now'

IDEAM INDUSTRY CLUSTER | Johnson & Johnson | SMARTFACTORY | NightingaleHQ

Tullamed **ENTERPRISE IRELAND** **Regional Skills MID WEST** **SMITHSTOWN** **Novatech Engineering**

INSTITUTE OF TECHNOLOGY CARLOW **LYOLLY** **LISK** **Kestrel Engineering Ltd** **LIT** **Alpha Engineering Ltd** **AOL**

Atmuri **TAKUMI PRECISION ENGINEERING** **PTMA** **IRISH MANUFACTURING RESEARCH** **AARON BENSON** **T** **GEM**

USED MACHINE TOOLS IRELAND LTD **IDEAM INDUSTRY CLUSTER** **PRECISION PARTS & PRODUCTS** **PREMIER MACHINE TOOLS** **Engineering Ltd** **Tooling & Design** **Kent** **PB Machine Tech**

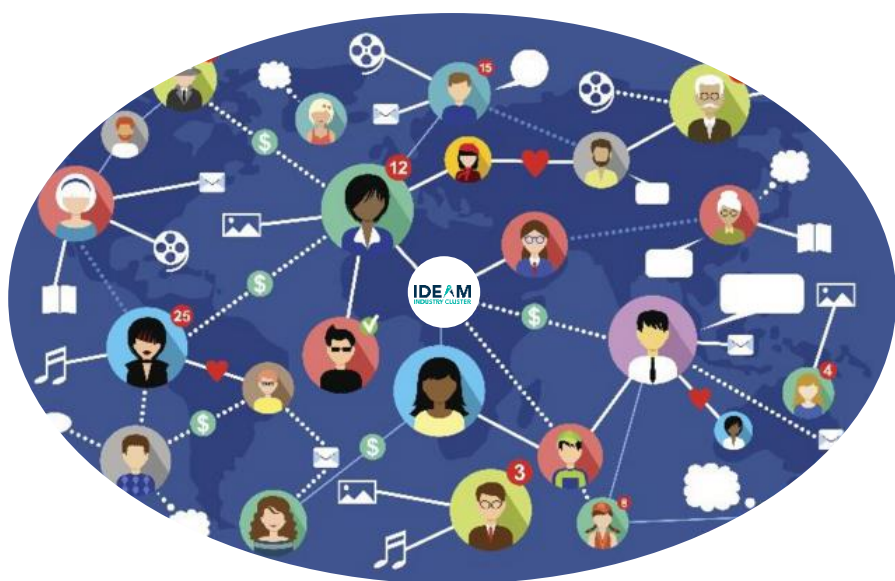
PTMA

AGENDA

PTMA IRELAND



Digital Communication Social Impact



IDEAM Website

The IDEAM website is central to the communication between the cluster and its members. The website provides relevant information to cluster members, from internal activities and news & events to funding opportunities and industry insights. Since the launch of the website, more than 35 entries have been published including newsletters, white papers, webinars and case studies.

6,800+ Pageviews

1,500+ Users



www.ideam.ie

Social Media: LinkedIn, Twitter & YouTube

Social media is one of the main channels of communication for the cluster and is predominantly used to increase communication and interactions between members of the IDEAM ecosystem, and to share information about key events, member news, financial programmes, training programmes, new innovations and opportunities for collaboration.



1,200+ Followers

55,000+ Impressions



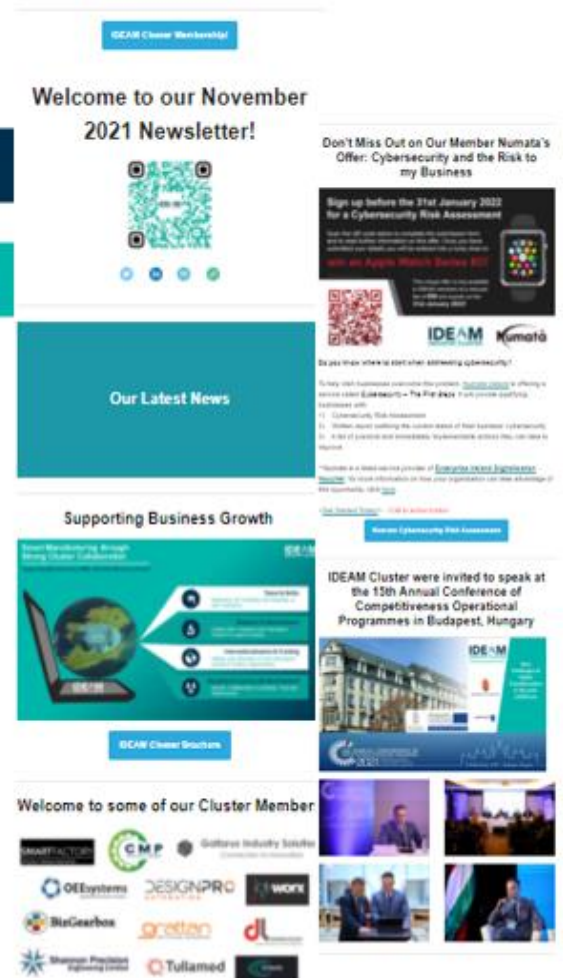
Since the launch of the IDEAM Cluster earlier this year, its online presence has been steadily growing through the continuous communication and engagement with members and partners of the cluster ecosystem in social networks. The cluster is currently represented on three main social media platforms: (1) LinkedIn, with more than 900 followers, (2) Twitter with over 300 followers and (3) our YouTube channel showcasing some of our videos.



12 Newsletters

461 Subscribers

The IDEAM Newsletter is launched on a monthly basis and informs cluster members about the key activities of the preceding month. The newsletter provides an overview of the latest cluster news as well as information on the cluster activities in relation to the four strategic pillars: Talent and Skills, Research and Development, Internationalisation and Funding, Business and Community Development.



NEWSLETTERS



Dec 2020



Jan 2021



Feb 2021



Mar 2021



Apr 2021



May 2021



June 2021



July 2021



Aug 2021



Sep 2021



Oct 2021



Nov 2021





IDEAM in the NEWS!

IDEAM

INDUSTRY CLUSTER



AIT-LIT Consortium

Home
About Us
Our Journey
The Project
News & Events
Publications

News & Events / IDEAM Cluster to assist manufacturing SMEs in all aspects of digital transformation and Industry 4.0.

IDEAM Cluster to assist manufacturing SMEs in all aspects of digital transformation and Industry 4.0.

Webinar — 30 January 2021



Located at LIT's Mayfield campus, the IDEAM Cluster is a collaborative effort between LIT, the Limerick Institute of Technology, and the Limerick Institute of Technology. The cluster is designed to assist manufacturing SMEs in all aspects of digital transformation and Industry 4.0.

Cluster to help Manufacturing SMEs in all aspects of digital transformation and Industry 4.0 launched in LIT

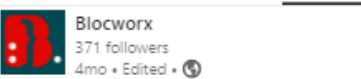
15 December 2020

The IDEAM (Irish Digital Engineering and Advanced Manufacturing) Cluster, designed to assist Manufacturing SMEs in all aspects of digital transformation and Industry 4.0, was launched at Limerick Institute of Technology LIT today Tuesday (December 15, 2020).

The cluster will help more than 70 Manufacturing SMEs, from the Mid West and all over Ireland to increase productivity, improve competitiveness and expand into international markets.

IDEAM will also bring together and support the growth of three well established networks, Limerick for Engineering, Limerick for IT and the Precision and Turned Parts Manufacturing Association (PTMA) through this overarching Cluster.

The cluster received the maximum allocation of €406,520 from the Regional Technology Clustering Fund, which provides a platform for engagement between enterprise and regionally-based academic institutions to drive productivity and competitiveness across the regions, and is overseen by Enterprise Ireland.

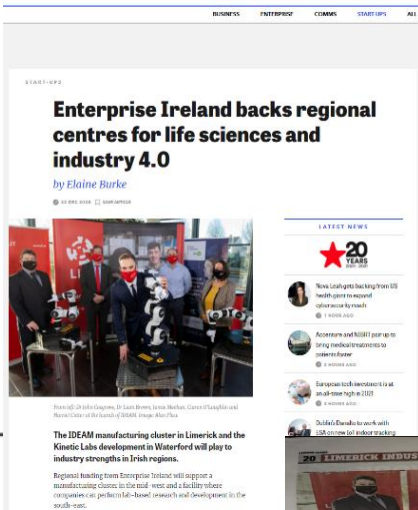


Blocworx team are happy to announce that we joined and registered our membership with **IDEAM Cluster**. It was a vice decision and we are pleased to be part of it. Also, thanks to **Jamie Meehan, PhD** on his support and guidance.

We do hope to engage with the whole IDEAM community and to be of assistance and support to anyone that is in need of our services.

As you know, Blocworx is a No-Code platform that allows citizen developers, managers, supervisors, and everyone else to deliver IT solutions, without any previous IT education or skills!

Blocworx can provide software solutions for every business in any industry!



"The IDEAM Cluster will enable the AIT - LIT Consortium to co-operate and engage further with SMEs, providing a means to increase their educational and research remit in all aspects of digital transformation and Industry 4.0. Working jointly as part of the AIT - LIT Consortium combining many new

Webinar – IDEAM Cluster – Best Practice R&D: Focus on R&D Tax Credits

Webinar: Best Practice R&D Management: Focus on R&D Tax Credits

Deve Byrne will bring practical and actionable tips and insights in order to demystify R&D Tax Credits for SMEs, and to Streamline the Business Processes of R&D and Innovation.

Date: 28th July 2021, 10am

RECORDING HERE

TICKETS HERE



Background:

IDEAM (Irish Digital Engineering and Advanced Manufacturing) Cluster, assists Manufacturing SMEs in all aspects of digital transformation and Industry 4.0. The cluster will help more than 70 Manufacturing SMEs, from the Mid West and all over Ireland to increase productivity, improve competitiveness and expand into international markets. Limerick Institute of Technology was awarded the maximum allocation of €406,520 from the €4.6 million Regional Technology Cluster Fund (RTCF) to build the IDEAM Cluster. The RTCF is a fund which provides a platform for engagement between enterprise and regionally-based academic institutions to drive productivity and competitiveness in and across the regions. Under Project Ireland 2040, this fund is administered by Enterprise Ireland on behalf of the Department of Business, Enterprise and Innovation.

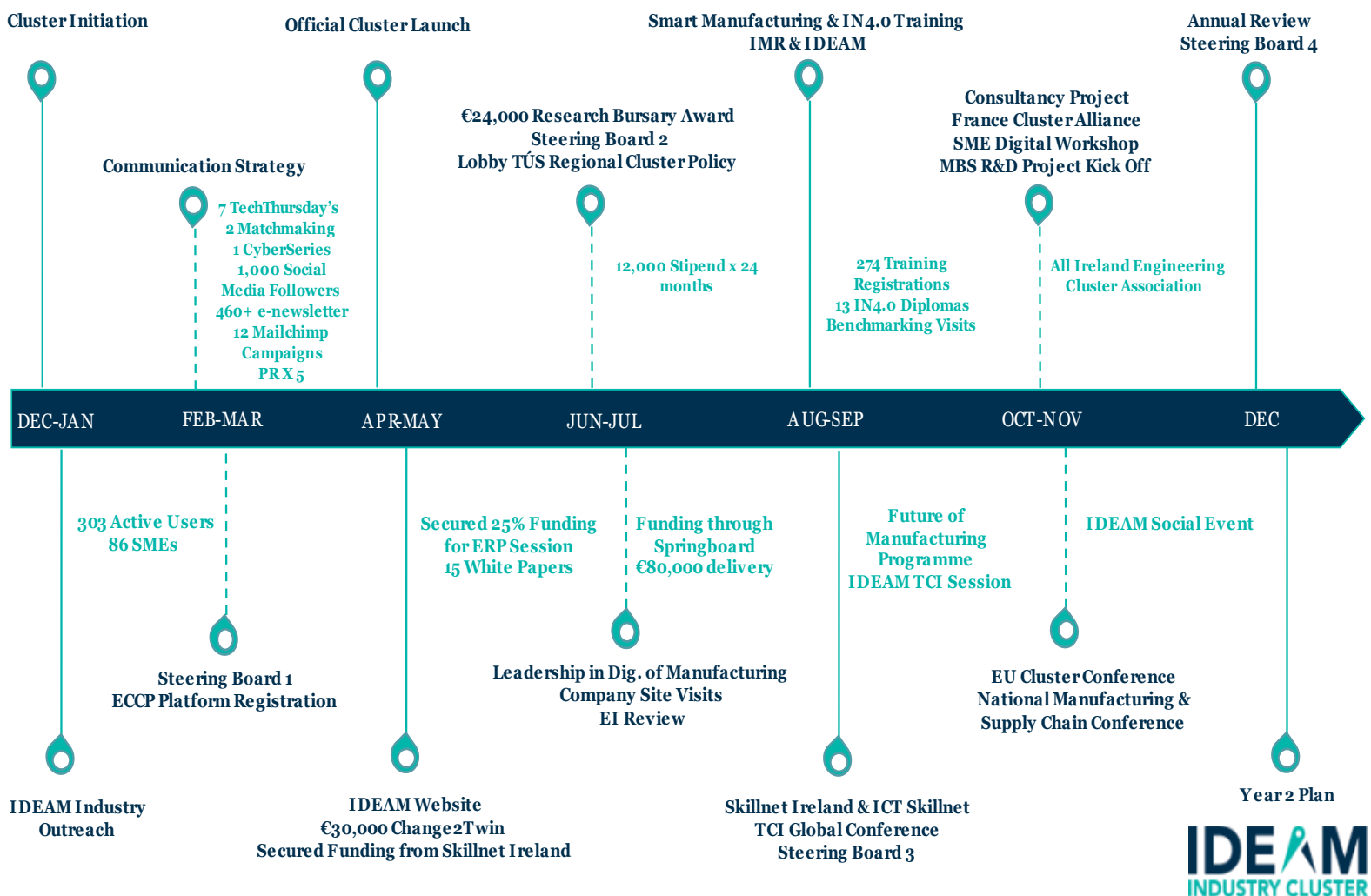
In collaboration with ResDi+Watch, this Tech Thursday IDEAM Cluster webinar will focus on Best Practice R&D Management. Mr. David Byrne, Founder and CEO will be delivering the presentation on the day.



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2021 Overview and Next Steps



IDEAM

INDUSTRY CLUSTER

COLLABORATION | INNOVATION | GROWTH

SUPPORTING MANUFACTURING SMEs GROWTH THROUGH DIGITALISATION

ANNUAL REVIEW 2021



CREATED BY

DR. JAMIE MEEHAN

Cluster Manager

Educational and Outreach

IDEAM Cluster



www.ideam.ie

