



Delivery of Action Plan:

Welsh Government

Greg Green

Presentation agenda



Background situation & objectives of the action plan

Main activities developed and the involvement of the stakeholder

Changes in the policy instrument, results & impacts, unexpected achievements

Application of the learnings

Potential next steps

Background



Manumix provided the opportunity to work alongside European partners and WG stakeholders on policy for Advanced Manufacturing evaluation.

The Action Plan aims to impact:

- Investment for Growth and Jobs programme
- Other regional development policy instrument

The policy instrument addressed have been broadened from the original to reflect the uncertainty facing Welsh SMEs caused by the results of the EU referendum (BREXIT) and some actions relating to Covid response.

WG overarching Economic Action Plan including The Research and Innovation priority of the EU Structural Funds Operational Programmes 2014 20, West Wales and the Valleys.

The action plan reflects these changes and shows Welsh Government reacting in an agile manner, accelerating processes due to circumstances and addressing challenges by adapting and modifying policy mix and instruments that were not present or foreseen at the start of Manumix.

The plan's overall aim is supporting the capacity of SMEs to engage in growth in regional, national and international markets, and in innovation processes in a highly competitive and uncertain future



Key Stakeholders

- Welsh Government Innovation
- Welsh Government Business and Regions
- Innovation Advisory Council Wales
- Wales European Funding Office
- Innovate UK
- Industry Wales
- Catapult network
- Nesta

Action Plan progress



Action 1

Status: Executed Developments Action Target up to 700 smes -Covering areas of productivity, design and implementation **Innovation department Deliver Industry 4.0 Instrument -3 days plus 2 optional** WG - Contracted **business diagnostic** additional days diagnostic consultants To date over 442 diagnostics have been undertaken.

Action 2



Action Developments Status: Executed Review of outputs, tracking of action plan implementation, progression **Monitor and evaluate pilot Innovation department** onto other innovation instruments programme

Action 3



Action Status: Executed Developments

Deployment of imported learning and development of new Instruments to support the action plans developed from the diagnostic phase.

Innovation department,
Innovation Advisory
Council Wales

Ongoing assessment and development of new instruments following learning journey visits and additional follow up activity.

Increased WG innovation staff learning from Manumix partners and refining existing instruments and measures.

Additional visits and wider collaborations between Basques and WG have developed over last 24 months eg intergovernmental innovation collaborations, I4.0 joint activities eg BIND4.0 workshops and events, Collaborations on policy development.

Action 4



Action Status: Executed Developments

Industry 4.0 policy and instruments benchmarking, to maintain effective policy mix

Ongoing assessment continues. Ministerial report commissioned to benchmark Welsh position and map out SWOT analysis and offer future recommendations UK Gov developing R&D roadmap for the UK, WG to provide input on planned I4.0 policy development.

Following Manumix Learning, the development of a focused diagnostic looking at the barriers and awareness to I4.0 with the modified and enhanced Innovation Voucher + (IV+) to help implement actions and /or to adopt I4.0 methodologies.

Impact of Covid restrictions has led to rapid response instruments to respond to the crisis as well as prepare industry for return back to effective operations.

WG and UK Government Covid responses implemented parts of I4.0 for example ventilator challenge, Advanced Manufacturing RTO in Wales part of industry response



Has the project Type of change (implementation of a new succeeded in **Changes and Policy-instrument** Action 1: project/improved influenced influencing the policy results management/modification) instruments? New and modified Changing Deliver 14.0/productivity; instruments perception and Industry 4.0 **Economic Action** Yes influenced by raising business Plan Imported learning awareness diagnostic from Basque and Increasing Finpiemonte activity partners in their I4.0 approach and policies.



Has the project Type of change (implementation of a new succeeded in **Policy-instrument Changes and Action 2:** project/improved influenced influencing the policy results management/modification) instruments? New and modified Changing Monitor and Diagnostic instruments perception and evaluate programme Yes influenced by raising pilot SMART suite learnings awareness programme Increasing activity



Has the project Type of change (implementation of a new succeeded in **Changes and Policy-instrument Action 3:** influenced influencing the policy project/improved results management/modification) instruments? New and modified **Providing** Deployment Diagnostic instruments support and of imported programme Yes influenced by scope for learning IV+ learnings additional Continued integration and information and training to policy sharing and deploy I4.0 collaborations with partners



Has the project Type of change Policy-instrument (implementation of a new succeeded in **Changes and Action 4:** influenced influencing the policy project/improved results management/modification) instruments? New and modified Industry 4.0 Increased Innovation instruments policy and collaborations Diagnostic Yes influenced by Covid 19 instruments programme learnings benchmarking, Challenges and IV+ to maintain responses effective policy Post Covid mix recovery

Results - application of learnings



Self-performance indicators

| | 0.10 | | |
|-------------------|--|--------|-----------------|
| Region | Self-performance indicators | Target | Achieved so far |
| Basque Country | Number of improved instruments cofounded by ERDF and related with AM | 2 | |
| Lithuania | Number of financed projects, related to advanced manufacturing | 5 | |
| Piedmont | Number of indicators (selected among those of the ERDF ROP 2014-2020) to be applied to the regional evaluation system to assess the policy implementation process, consistency and impact. | 3 | |
| Wales | Number of enterprises supported to introduce new to the market products | 245 | 97* |

| Year | SMART Cymru Project No |
|--|------------------------------|
| Jan 2017-20 New products to Market | 97* |
| Innovation Vouchers | 281 |
| Jan 2019- sept 20 (Action Plan) Innovation Voucher Plus | 21 approved (5 in appraisal) |
| Total | 399 |

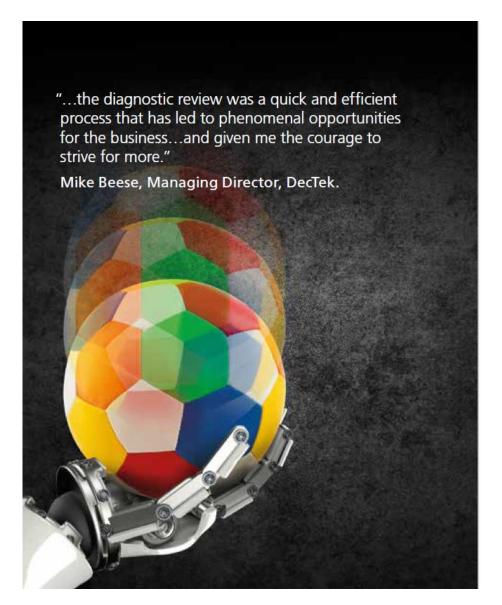
97 in narrow definition, in wider innovation support, the total innovation projects supported is 399 against the 245 target (with a value of £31.7m/€34.68) exceeding the self defined indicator target.

The 97* projects within the narrowly defined indicator have a combined project value of over £22.5m/€24.63

IV+ projects value c£4m / €4.38m







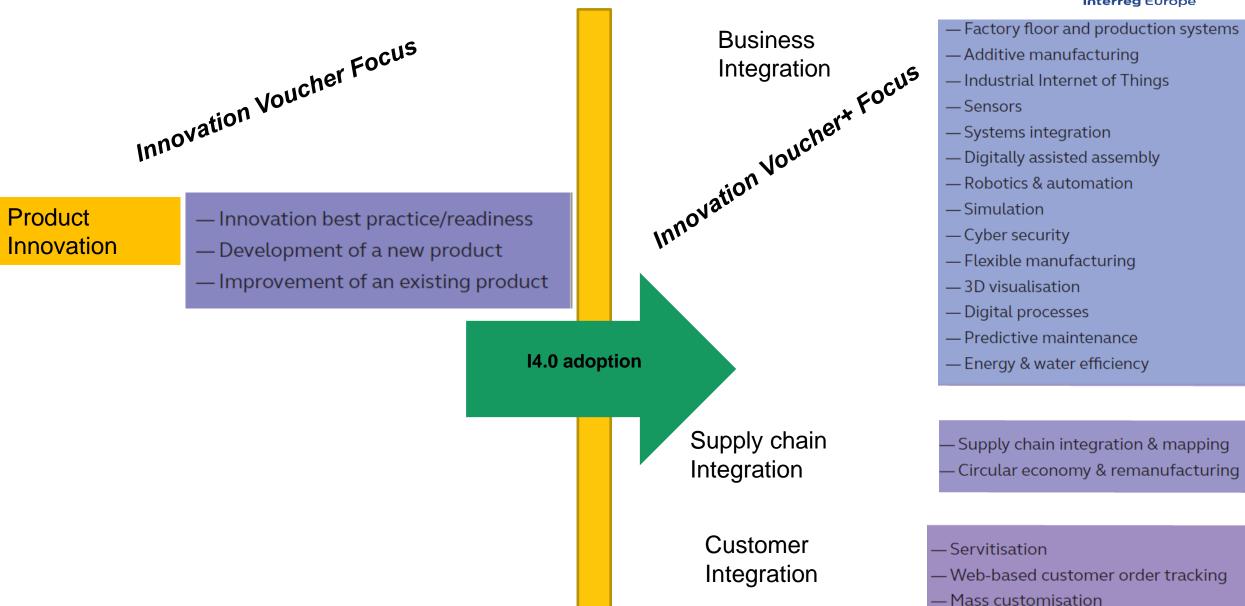
SMART – Design & Productivity

At a glance

- 3-day health-check by industry specialist
- Fully-funded
- Manufacturing or design focussed
- Delivered via external expertise
- 5-day fully-funded follow-up work
- Tailored to the business
- Improves productivity, quality or efficiency...
- ...or develops new products or services

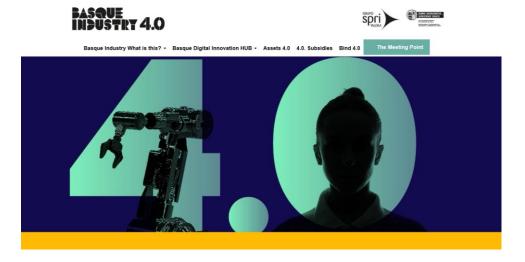
Policy-instrument change – new wider focus





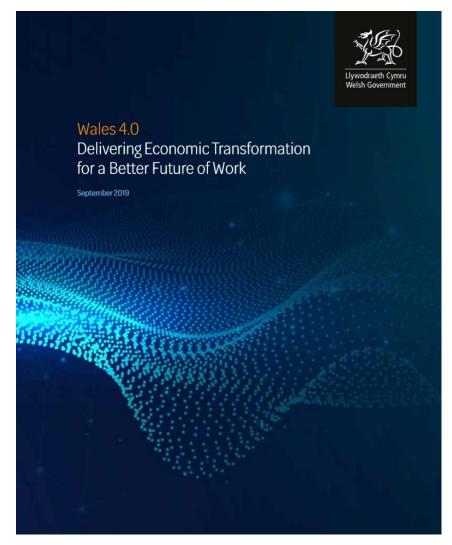
Key partner learnings – focused policy







Impresa 4.0 policy



Importance of role of RTOs – senior WG support –UK support for key centres



RTO Investments
Advanced Manufacturing





RTO Investments Compound Semi Conductors





Key learnings



Imported:

- Industry 4.0 policies, strategies, vision and ambition.
- The role of the regions RTO and how they operate with the sector.
- The undertaking of Industry 4.0 assets in the region
- Methods of outreach and evaluation.
- Opportunities for closer partner region collaborations (official and stakeholder)

Exported:

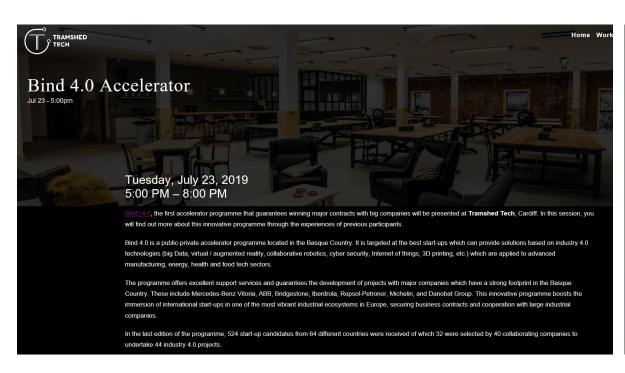
- Insight to the Innovation Policy, measures and instruments operate and evaluation.
- The role of the Innovation specialist role profile, job description, recruitment profile, experience and daily activities. Evaluation methods of programme and outputs
- Innovation policy development, delivery models, programmes and sources of funding
- Public sector challenge led innovation (recognised as a project good practice)

Other Interesting policy developments



Associated Outputs and impacts

BIND 4.0 visit to Cardiff July 2019 BIND demo day July 2020 BIND Workshop August 2020







Application, unexpected learning and next steps

- Commitment to on going collaborations with Basques London/Wales/Basque region
- Regional impact and the importance of place.
- Learnings from Aero hub considered in the AMRI RTO
- Key component suppliers into Basque key industries eg Orona
- Automotive support and RTO comparison and SWOT analysis
- Models of regional R&D funding/Tax/Grants/Access to finance
- Adv Manufacturing I.40 programmes compare and appraise
- Regional and political importance of Science and Innovation
- Employee owned business models
- Commitment and approaches to Women in science and innovation

WG partner on related Interreg project – Cohes3ion Launched in Bilbao (Oct 2019)



An interregional cooperation project for improving innovation infrastructure policies.

Droject Partners

BEAZ S.A.U. (ES)
Business Metropole Ruhr GmbH (DE)
Azaro Foundation (ES)
Deusto Foundation (ES)
Southern Regional Assembly (IE)
Calabria Region (IT)
Mazowieckie Voivodeship / Office of the Marshal of the Mazowieckie Voivodeship in Warsaw (PL)
North-West Regional Development Agency (RO)

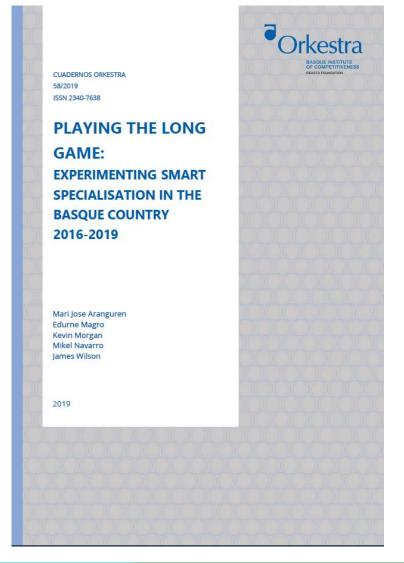








Wales assistance in Basque RIS3 report Prof Kevin Morgan IACW and Cardiff University (Aug 2019)





WG attended RIS3 workshop in Brussels (Sept 2019)



WG innovation officials visit to Bilbao (Jan 2019)

Ongoing collaborations with partners MOU Between Wales and Basque region







SCoRE Cymru

Supporting Collaborative Research and innovation in Europe

Bilateral co-operation projects between Wales and the Basque Country Call July 2020

Background

The Basque Country¹ is a priority region in the Welsh Government's International Strategy. Since 12 July 2018, Wales has had a Memorandum of Understanding with the Basque Government.





Oria Valley, Basque Country (Image

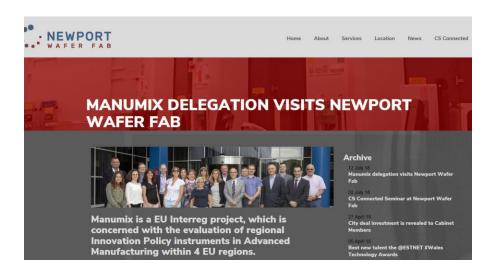
South Wale

There is a long history of links between Wales and the Basque Country, from prehistory to the iron and coal trade, and now with companies such as CAF and Midatech operating in both countries. The Basque Country offers 1,660 internationalised companies in one of the largest industrial concentrations in Spain. It has a high quality of life and some of the highest productivity levels in Europe. There is a strong manufacturing base with a relentless focus on science and innovation. The strong Basque technology organisations and universities make it one of the

Welsh projects
examples -covering
Neuroscience
Fisheries
Languages
Healthy Ageing

Evolving Industrial, research and international relationships









IQE presents at EU Manumix event in South Wales

12 July 2018

Earlier this week, IQE presented an overview of compound semiconductor technologies, the role of government intervention in encouraging innovation and the power of clusters at an event hosted at chip foundry, Newport Wafer Fab, a founding member of CSconnected, the world's firstcompound semiconductor cluster.

The event was attended by a group of representatives from four European regions participating in the EU Interreg project Manumix.



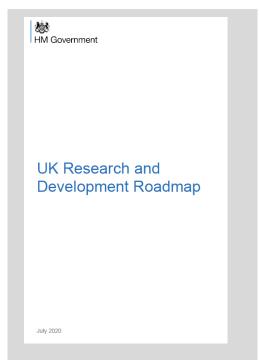
Manumix is a EU Interreg project which focusses on the evaluation of regional Innovation Policy instruments in Advanced Manufacturing within 4 EU regions. Led by the Basque region, with Finpiemonte Region of Italy, Lithuania and Wales.



Wales – New Regional Policies MANUMIX

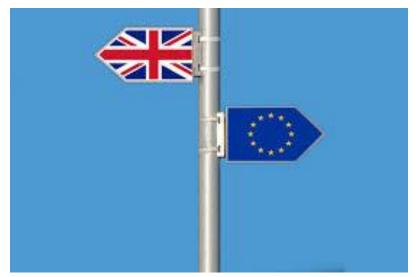


UK Gov – 'Levelling up' agenda





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Thank You...

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