



MANUMIX
Monitoring & Indicators

Basque Country







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I. General introduction: MANUMIX programmes





The Basque policy-instrument addressed by MANUMIX includes three RDI programmes.

All of them are oriented to support companies but the objective and the scope are different.

Name	Policy objective	Objective	Main target group	Sectoral scope	Year of launch	Annual budget
Gauzatu Industria Industrial investments Loans	Creation and development of technology or innovation-based SMEs	Supporting new investments in the following categories: IP, ICTs, land/natural assets, buildings, technical installations, machinery, tools	Industrial SMEs (including manufacturing) and SMEs of industry-related technical services	Industry Advanced Manufacturing is the main domain	2000	€28.0 millions 2017
Basque Industry 4.0 Incorporation of ICTs Grants	Technological training and promotion of business R&D	Supporting business industrial research and experimental development projects for technology transference of ICTs from RTOs to manufacturing companies	Manufacturing companies	Advanced Manufacturing	2015	€2.2 millions 2017
Hazitek Collaboration & R&D investments Grants	Technological training and promotion of business R&D	Supporting business industrial research or experimental development projects, both of competitive ("small" projects; budget ≥€10k) or strategic ("big" projects; budget ≥€4M) nature	Companies Large, SMEs and micro-companies	Horizontal Nevertheless, the 80% of the budget is for RIS3 priorities, including Advanced Manufacturing	2016 Relevant modification of previously existing 3 programmes that were merged	€82.8 millions 2017



II. Indicators of MANUMIX programmes

Types of indicators and what & why Towards monitoring at policy-mix

Indicators of MANUMIX programmes. Types of indicators and what & why

The majority of Gauzatu Industria's indicators are monitored ex-ante; the ones that try to measure results or outcomes/impacts of the public intervention are gathered when the payment takes place.

Yearly, result and outcome/impact indicators are estimated and compared with the expected objectives of the programme and the results of previous years.

All data are gathered through the reports (applications and justification) from the beneficiaries.

Indicators	Timing	Туре	Nature	Composition	Source
Number of applications		Effort	Quantitative	Simple	Applications
Number of approved projects		Effort	Quantitative	Simple	
Quality of approved projects	Ex-ante	Effort	Qualitative	-	
Approved budget		Effort	Quantitative	Simple	
Repayable advances lent		Effort	Quantitative	Simple	
Estimated induced investment		Result	Quantitative	Simple	Projects
Estimated number of jobs created		Outcome/Impact	Quantitative	Simple	
Estimated number of jobs saved		Outcome/impact	Quantitative	Simple	
Executed expenditure	Intorino	Activity	Quantitative	Simple	
Repaid loans	Interim	Activity	Quantitative	Simple	

Indicators of MANUMIX programmes. Types of indicators and what & why

Measuring result and outcome/impact indicators ex-post would improve the monitoring system of the programme.

Indicators/What do we measure?	Why do we measure it?	
Number of applications	To know if the programme is interesting for companies	
Number of approved projects	To know the efforts made and if the required selection criteria are still adequate	
Quality of approved projects	To ensure that public money has been well spent	
Approved budget Repayable advances lent	To know the efforts that will be made and for financial management	
Estimated induced investment	To estimate the additional effect of the intervention	
Estimated number of jobs created	To estimate the impact of the intervention	
Estimated number of jobs saved		
Executed expenditure Repaid loans	To know the efforts made and for financial management	

Would we measure something more?



Satisfaction level	To know if the programme is relevant for the companies' needs, is enough and is comprehensive	
Induced investment	To know the additional effect of the intervention	
Number of product/process innovations	To know the results of the investments	
Turnover increase/cost reduction	To know the impact of the public intervention (data gathered at the justification stage)	
Number of jobs created		
Number of jobs saved		

Indicators of MANUMIX programmes. Types of indicators and what & why

Apart from monitoring the number of projects and budget-related indicators, Basque Industry 4.0 plays special attention to the technologies that are supported.

Additionally to the monitoring system, there is a qualitative assessment done yearly based on meetings with participating companies and RTOs.

Indicators	Timing	Туре	Nature	Composition	Source
Number of applications		Effort	Quantitative	Simple	Applications
Number of approved projects		Effort	Quantitative	Simple	
Approved budget	Ex-ante	Effort	Quantitative	Simple	
Approved grants		Effort	Quantitative	Simple	
Technologies expected to be used		Result	Qualitative	-	Projects
Executed expenditure	lunto vivo	Activity	Quantitative	Simple	
Paid grants	Interim	Activity	Quantitative	Simple	
New technologies incorporated	Ex-post	Result	Qualitative	-	

Indicators of MANUMIX programmes. Types of indicators and what & why

Including outcome/impact indicators would be a major improvement that could be made to its monitoring system.

In addition, measuring the innovations introduced would also be an improvement.

Indicators/What do we measure?	Why do we measure it?		
Number of applications	To know if the programme is interesting for companies		
Number of approved projects	To know the efforts that will be made and if the required selection criteria are still adequate		
Approved budget	To know the offerts that will be made and for financial management		
Approved grants	To know the efforts that will be made and for financial management		
Technologies expected to be used	To know the relevance of eligible technologies		
Executed expenditure	To know the efforts made and for financial management		
Paid grants			
New technologies incorporated	To know the effectiveness of the public intervention and to know the relevance of eligible technologies		

Would we measure something more?



Satisfaction level	To know if the programme is relevant for the companies' needs, it is enough and it is comprehensive (done in an informal way)
Number of product/process innovations	To know the results of the technologies incorporated
Turnover increase/cost reduction	To know the impact of the public intervention

Indicators of MANUMIX programmes. Types of indicators and what & why

Hazitek has a wide range of indicators including outcome/impact ones, both of quantitative and qualitative nature, an even a composed indicator.

Hazitek

Outcome/impact indicators are measured through an special monitoring system called SIME.

Indicators	Timing	Туре	Nature	Composition	Source
Number of applications		Effort	Quantitative	Simple	Applications
Number of approved projects		Effort	Quantitative	Simple	
Approved budget	Ex-ante	Effort	Quantitative	Simple	
Approved budget in RIS3 priorities		Effort	Quantitative	Simple	Droinata
Approved grants		Effort	Quantitative	Simple	Projects
Executed expenditure	la ta viva	Activity	Quantitative	Simple	
Grants paid	Interim	Activity	Quantitative	Simple	
Scientific publications		Result	Quantitative	Simple	
EPO/PTC patent applications		Result	Quantitative	Simple	Duoinata
New/improved processes		Result	Quantitative	Simple	Projects
New/improved products		Result	Quantitative	Simple	
SIME indicator	Ex-post	Outcome/Impact	Quantitative	Composed	
Additional incomes		Outcome/Impact	Quantitative	Simple	
Jobs created/saved		Outcome/Impact	Quantitative	Simple	SIME
Internationalisation degree		Outcome/Impact	Qualitative	Simple	
Competitiveness degree		Outcome/Impact	Qualitative	Simple	

Indicators of MANUMIX programmes. Types of indicators and what & why

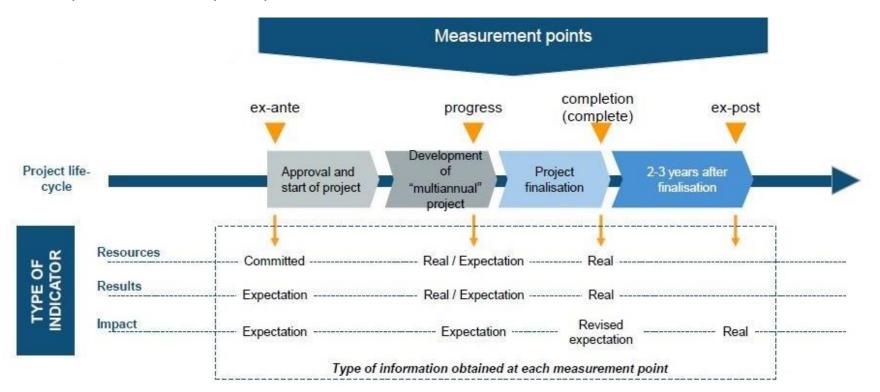
Result indicators are compared to the expected objectives of the projects and to the results of previous years, but there are no goals at programme level.

Indicators/What do we measure?	Why do we measure it?
Number of applications	To know if the programme is interesting for companies
Number of approved projects	To know the efforts that will be made and if the required selection criteria are still adequate
Approved budget	
Approved budget in RIS3 priorities	To know the efforts made, for financial management and to measure the contribution to the different priorities
Approved grants	contribution to the different priorities
Executed expenditure	To know the offerts made and for financial management
Grants paid	To know the efforts made and for financial management
Satisfaction level	To know if the programme is relevant for the companies' needs, is enough and is comprehensive
Scientific publications	
EPO/PTC patent applications	To know the offectiveness of the public intervention
New/improved processes	To know the effectiveness of the public intervention
New/improved products	
SIME indicator	
Additional incomes	
Jobs created/saved	To know the impact of the public intervention
Internationalisation degree	
Competitiveness degree	



SIME is the monitoring system of the R&D programmes that belong to the Technology & Strategy Directorate of the Basque Government among which Hazitek is one of the most relevant.

The information is collected from the beneficiaries at projects' different moments, including 3 years after the completion of the project. In this case, the data is gathered with questionnaires to a sample of beneficiary companies.



^(*) Hazitek is the only MANUMIX programme included in SIME since Gauzatu Industria and Basque Industry 4.0 belong to other directorates (see annexes).





The evaluation system of all MANUMIX programmes at policy mix level should take into account the intervention logic of the mix and the interaction among programmes.

In order to do that, we need to work on indicators that measure different aspects of the mix.

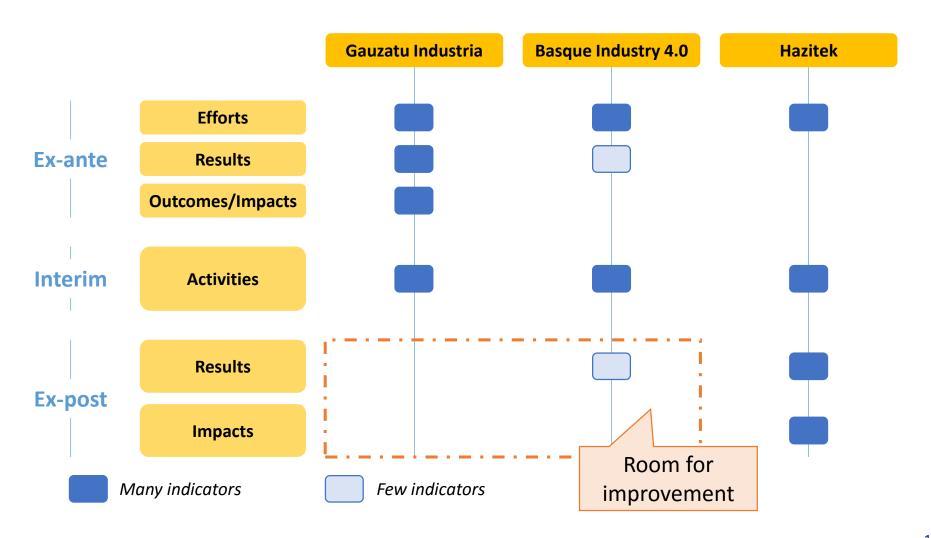
- Work on indicators that measure the level of interaction among the selected programmes.
- Work on indicators to measure the joint contribution to the Advanced Manufacturing Strategy.

• Work on indicators to measure the joint results and impacts ex-post (jobs, competitiveness, turnover, exports, etc.).





Regarding measuring the results and impacts of all MANUMIX programmes, there is room for improvement mainly in ex-post indicators.



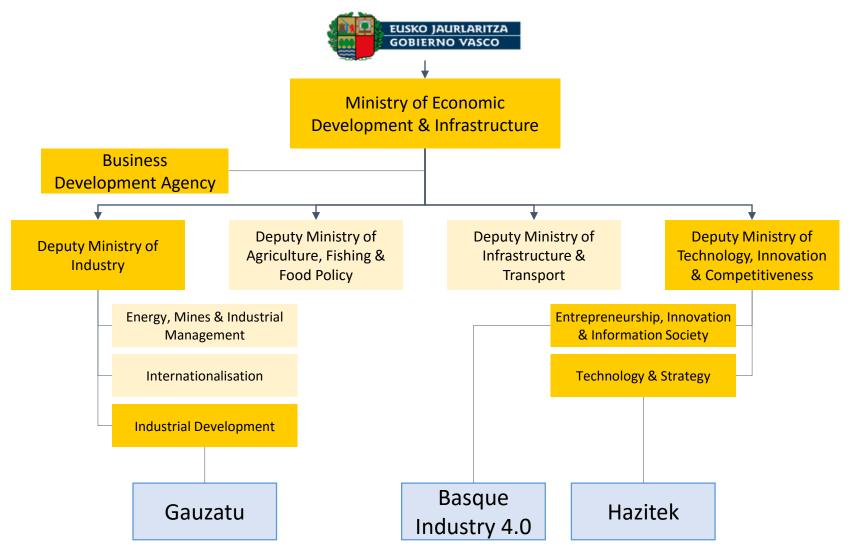


III. Annexes





Each programme is owned by a different directorate of the Basque Economic Competitiveness & Infrastructure Ministry.







Technological upgrading for industrial SMEs

Durnoso	Creation and development of industrial SMEs based on technology and/or	Instrument	Loans	
Purpose	innovation.	Beneficiaries	Industrial SMEs or related services	
Contars	Industry, and related convices	Year of launch	2000	
Sectors	Industry and related services	Annual budget	€28.0M (2017)	

Description

- Support for new investments:
 - Industrial Property.
 - Software.
 - Terrains and natural assets.
 - Buildings.
 - Technical installations.
 - Machinery and tools.
 - Hardware for information processing.
- 24 MONTHS + GRACE PERIOD + 5 REPAYMENT

- Minimum project investment: €120,000
- Recoverable advances that may amount to 25%-35% of the investment supported, depending on firm size and its nature of innovative or technological.
- Maximum advance of €1.5M.
- Maximum of €150,000 per job created and a maximum of €100,000 in the case of saving jobs.



Technology transference of electronics and ICT related to Advanced Manufacturing

Durnoso	Support of Industrial Research and Experimental Development projects with demonstrative effect that involve	Instrument	Subsidies
Purpose	technology transfer of electronics and ICT related to AM from technology suppliers to companies (TRL5-TRL9)	Beneficiaries	Manufacturing companies
Contors	Advanced Manufacturing	Year of launch	2015
Sectors	Advanced Manufacturing	Annual budget	€2.2M (2017)

Description

- Technologies supported (CPS):
 - Cybersecurity and industrial communications.
 - · Cloud Computing.
 - Big Data.
 - · Advanced Analytics and Business Intelligence.
 - · Collaborative robotics.
 - Augmented reality.
 - · Artificial vision.
 - Sensor systems.
 - Design & additive manufacturing in metallic and advanced materials (ceramics, composites, etc.).
- Subsidy figures: up to the 25% of the eligible expenses and investments approved +15% when the project involves effective collaboration between a company and one or more research and knowledge dissemination entities, up to a limit of €200,000 per company.
- Minimum budget of the projects: €75,000.



Industrial research and experimental development

Objective	Support industrial research (TRL3) and experimental development (TRL6) projects,	Instrument	Subsidies
Objective	of either a competitive or strategic nature.	Beneficiaries	Companies Bigs & SMEs RVCTI (start-ups)
Priorities of the Basque Science, Technology & Innovation Plan 2020		Year of launch	2016
Sectors	Sectors In strategic projects the 80% of the budget is for RIS3 priorities		82.8M€ (2017)

Description

A. Competitive projects (annual projects).

- Development of new products or new companies based on science and technology.
- Individual projects or in collaboration.
- Total minimum annual budget of €100,000; in the case of collaborative projects, €50,000 per company.
- Subsidy: up to the 25% of eligible costs. 30% in transnational collaborative projects (e.g. Manunet).
- Maximum amount of non-refundable subsidy: €250,000 per beneficiary each year.

B. Strategic projects (muti-annual projects, up to a maximum of 3 years).

- Strategic R&D projects in the priorities of the Basque Science, Technology and Innovation Plan 2020.
- Strategic projects, developed under collaboration or one-off projects. Minimum budget of €4M.
- Subsidy: up to 40% of eligible costs for industrial research projects.
- Subsidy: up to 25% of eligible costs for experimental development projects.



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