

Sostenibilidad desde la eficiencia

Jatsu Intxaurre, HJ GARAY Corporation S.A

24.11.2022



2022
**BASQUE
CIRCULAR
SUMMIT**



Tabla de contenidos

- Presentación de la empresa
- Qué nos piden nuestros CLIENTES
- Cuál es nuestra RESPUESTA
- Dónde aplicamos mayor CIRCULARIDAD
- Reflexiones finales

HJ Garay Corporation



Garay Componentes Tubulares, S.A. de C.V.



Garay Slovakia, s.r.o.



More than 150 years of commitment to our customers

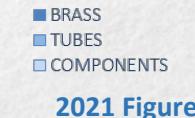
La Economía Circular como instrumento para el fomento de la competitividad empresarial



1864

- 1864-1903 Matches manufacturing
- 1874-1875 Coining.
- 1921-1994 Umbrella frame manufacturing.
(The only company in Spain at that time)
- 1926 Welded steel tube manufacturing
(The first factory in Spain)
- 1954 Brass bars and shapes
- 1955 Cold drawn welded precision steel tubes
- 2003 Automotive tubular components
- 2007 Garay Slovakia
- 2016 Garay México
- 2018 HJ Garay Corporation

Turnover 155 Million €



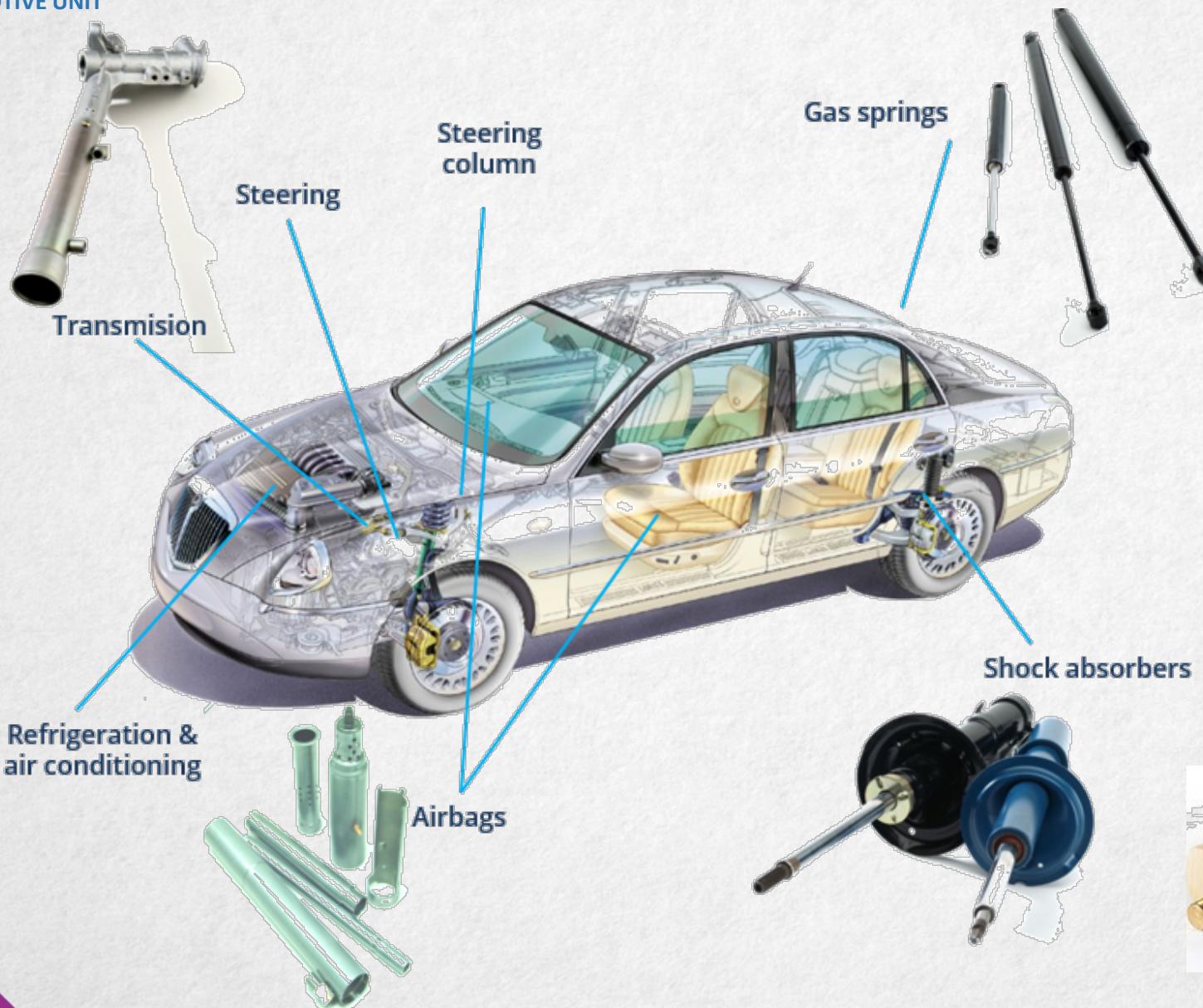
2021 Figures



- c. 600 people
 - > 400 Oñati
 - c. 35 Bratislava
 - c. 140 Celaya



AUTOMOTIVE UNIT



La Economía Circular como instrumento para el fomento de la competitividad empresarial

GARAY

MAIN AUTOMOTIVE CUSTOMERS



BRASS UNIT



IATF CERTIFICATIONS

Sustainability, beyond the environment

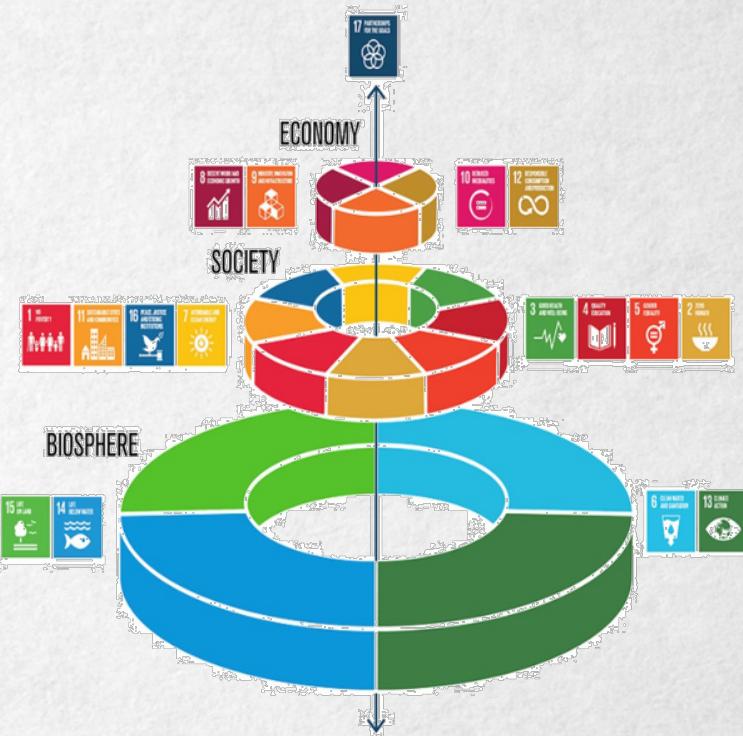
Copyright GARAY 2022. The reproduction or distribution of the materials included is forbidden, except for private or academic use.



since 2006



since 2013



NQC > 80 %

La Economía Circular como instrumento para el fomento de la competitividad empresarial





Environment Goals[®]

	Reduce Scope 1 and Scope 2 GHG emissions intensity by 30% by 2030 from a 2019 baseline.
	Decrease operational energy demand by 10% by 2030 from a 2019 baseline.
	Source 15% more renewable energy by 2030.
	Reduce waste to landfill by 20% by 2030 from a 2021 baseline.

BMW – VOLVO – MERCEDES – STELLANTIS - VW

La Economía Circular como instrumento para el fomento de la competitividad empresarial

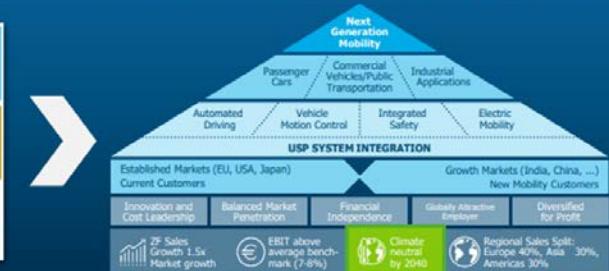
- Qué nos piden nuestros CLIENTES

Sustainability as Integral Part of ZF Strategy

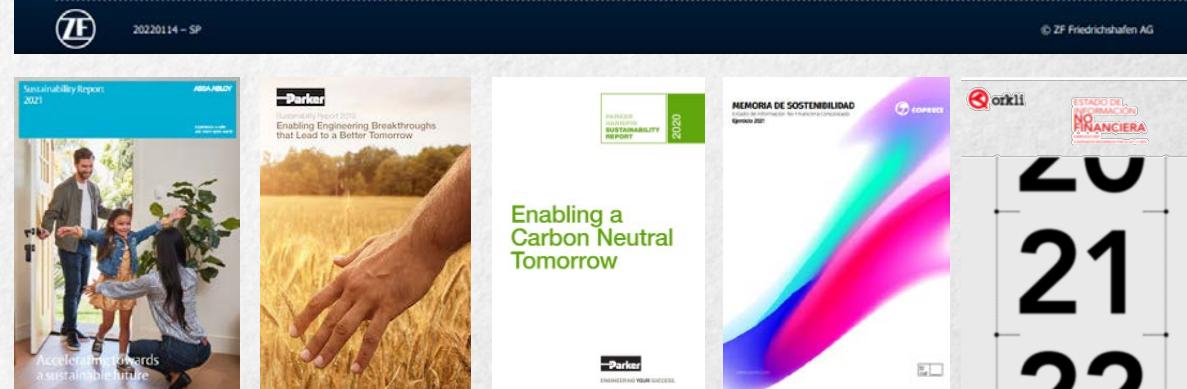
UN Sustainable Development Goals



ZF Next Generation mobility



ZF's ambitious climate strategy:
Climate neutrality across all emission categories by 2040



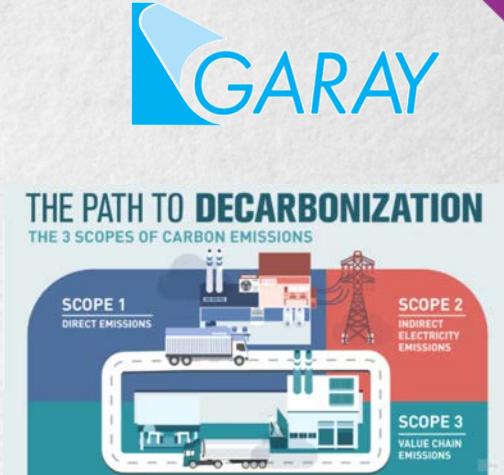
2022
BASQUE
CIRCULAR
SUMMIT



Our roadmap to reduce GHG emissions:

- 30% by 2030 (baseline in 2018, EMAS certification since 2013)
- 60% by 2039 (we will celebrate our 175th anniversary committed to all stakeholders)
- Carbon neutral by 2050 (according to the current European Green Deal)

• Cuál es nuestra RESPUESTA



GARAY's Green Energy roadmap in Oñati:

- 2022: 80% of renewable energy
- 2025: > 85% of renewable energy
- 2030: 100% of renewable energy



We are working worldwide to achieve similar results when and where renewable energies are available

La Economía Circular como instrumento para el fomento de la competitividad empresarial

- Cuál es nuestra RESPUESTA



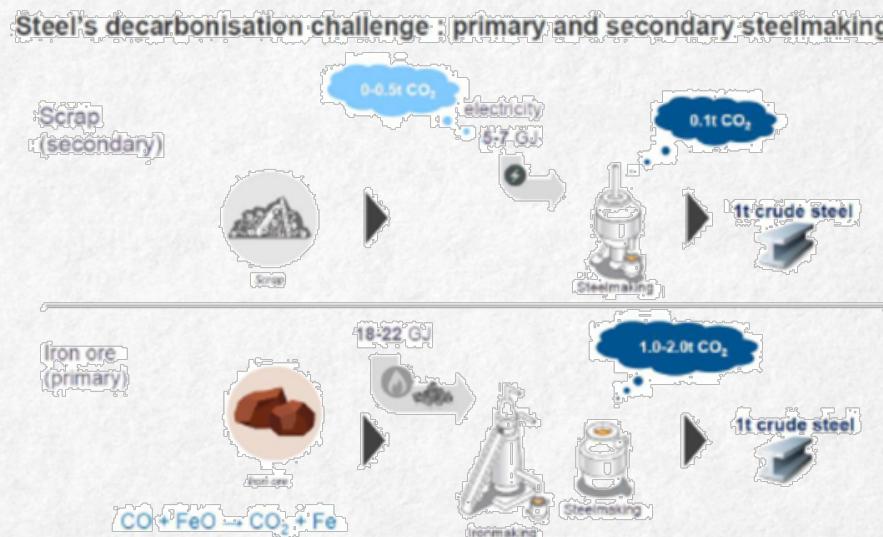
There are two main technologies:

EAF (Electric Arc Furnace)

- Closed to 100% secondary material

BF - BOF (Blast - Basic Oxigen Furnace)

- 2022: maximum 17,5% of secondary material
 - 2023: about 30% of secondary material

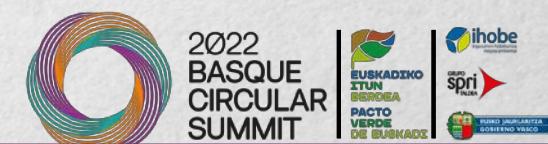


(information source: ArcelorMittal, Downstream Solutions SSC Europe)

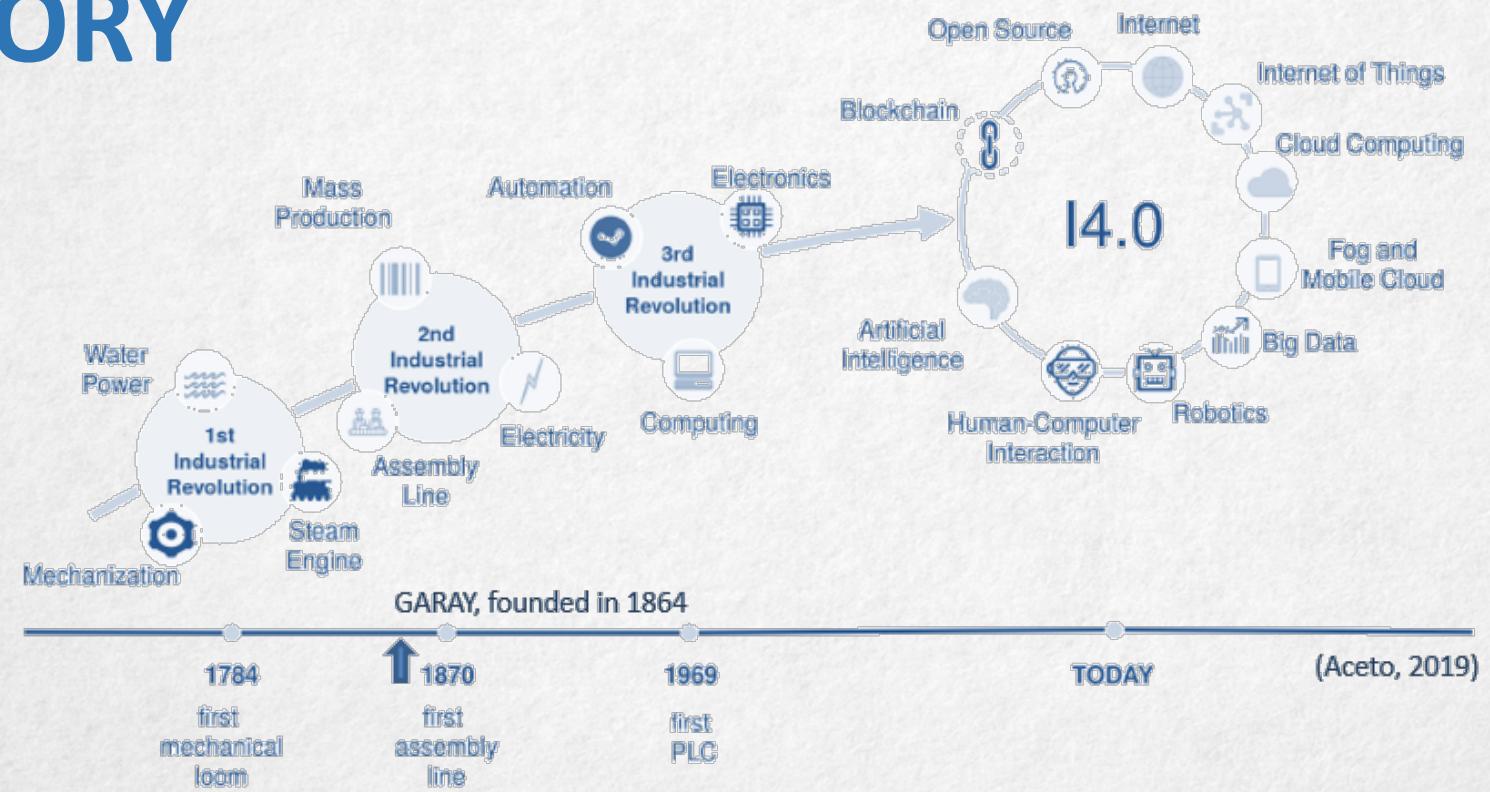
In a near future solutions are coming:

- 2026: New era of Green Steel, nowadays scaling up to mass industrial production
 - DRI (direct reduction iron) by ARCERLORMITTAL and TATA STEEL
 - HYBRIT (fossil-free steel also direct reduced with H₂) by SSAB
 - Other initiatives to mitigate climate change are emerging, H₂ Green Steel e.g.
 - Meanwhile, XCARB certified steel by ARCERLORMITTAL is possible

GARAY follows steel makers global leaders technologies, cost impact TBD



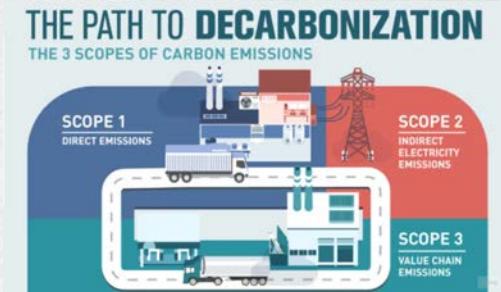
SMART FACTORY



- Cuál es nuestra RESPUESTA

To minimize the use of natural resources and maximize the performance of industrial assets

La Economía Circular como instrumento para el fomento de la competitividad empresarial



Tubes & Components Manufacture Process



Where do we create value for the customer?



La Economía Circular como instrumento para el fomento de la competitividad empresarial

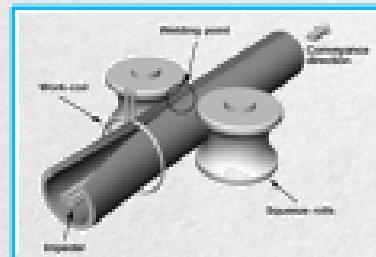




Raw material management



Roll forming

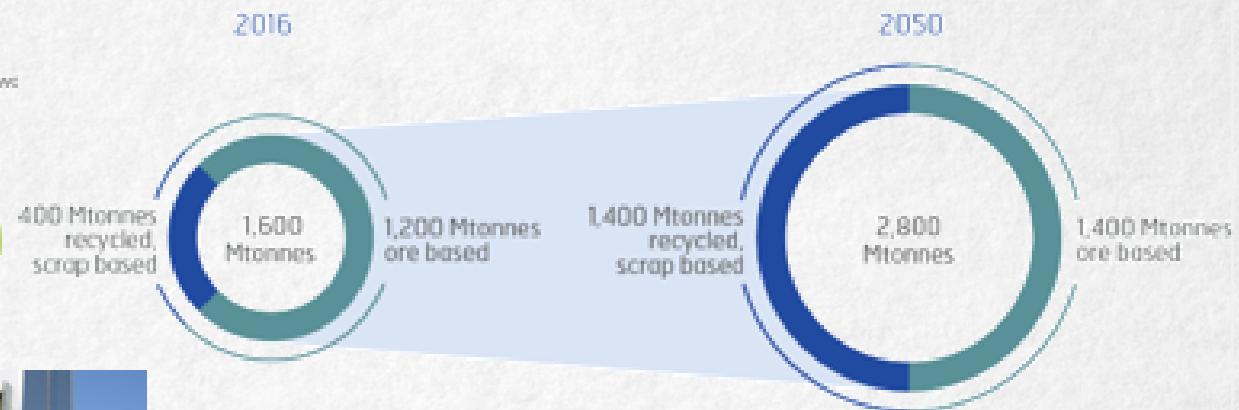


Welding

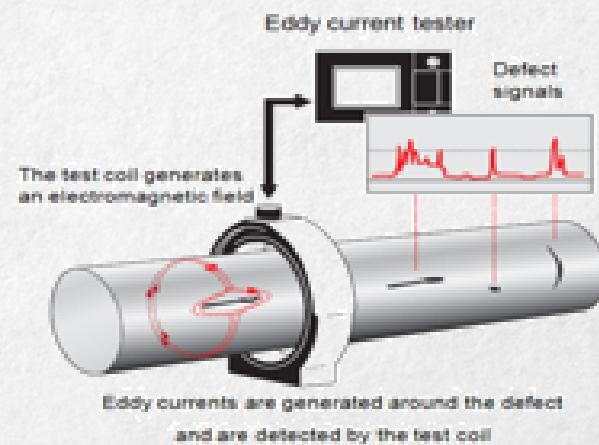
Steel demand – today and forecast 2050

XCarb®

Recycled and renewable
produced



Input of raw material with higher “dispersion” to be processed in the forming and welding processes monitored by non-destructive continuous tests.



La Economía Circular como instrumento para el fomento de la competitividad empresarial



2022
BASQUE
CIRCULAR
SUMMIT





Optimizing the use of furnaces and the oiling process

Proyecto ECOTUBE LOTTE

Millones de trabajos PCT2019 en el Índice de trabajos realizados en digitalización



Heat treatment



Surface engineering



Drawn over mandrill

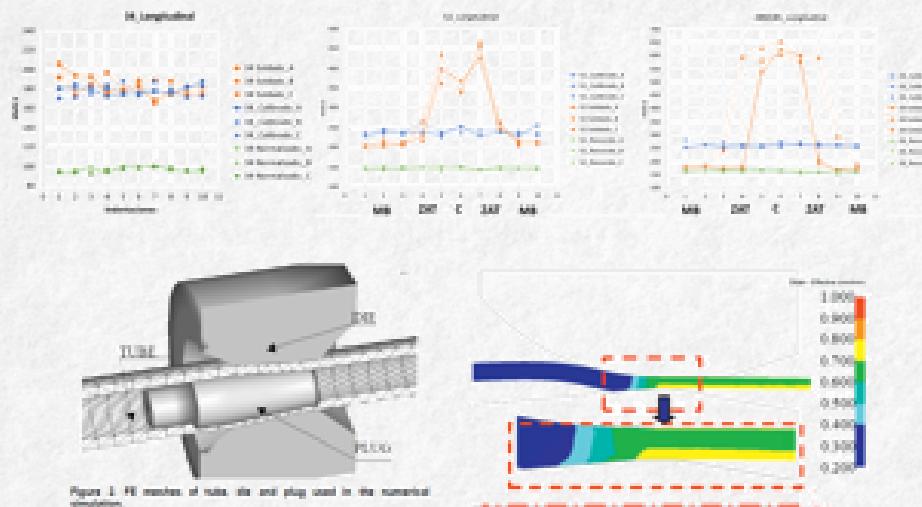
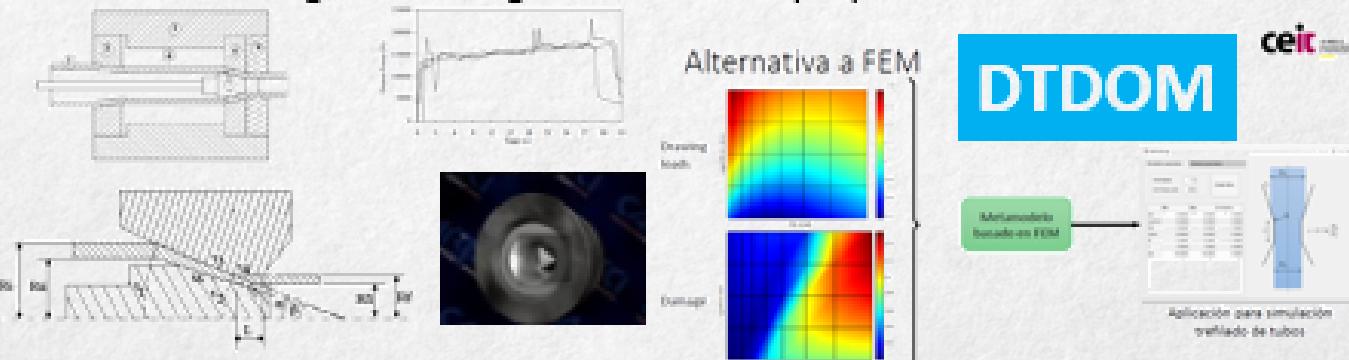


Figure 1. PI numbers of runs, the test plug used in the numerical simulation.

Recognized experts (practitioners) in the drawing process, guaranteeing tolerances and properties



La Economía Circular como instrumento para el fomento de la competitividad empresarial



Brass Manufacture Process



- Dónde aplicamos mayor CIRCULARIDAD



CIRCULAR BRASS



La Economía Circular como instrumento para el fomento de la competitividad empresarial

- Reflexiones finales



Do things better to do better things

Sostenibilidad desde la eficiencia

READY



SET



GO!

La Economía Circular como instrumento para el fomento de la competitividad empresarial

Jatsu Intxaурbe, jintxaурbe@hjgaray.es

www.basquecircularsummit.eus



2022
BASQUE
CIRCULAR
SUMMIT

PACTO
VERDE
DE EUSKADI
EUSKADIKO
ITUN
BERDEA

ihobe
GRUPO
spri
TALDEA
EUSKO JAURLARITZA
GOBIERNO VASCO

GARAY