



I+D+i

ACV & Huella de Carbono

Grupo de Ingeniería Ambiental y Bioprocesos

Escuela Técnica Superior de Ingeniería

Universidad de Santiago de Compostela

<http://www.usc.es/biogrup>

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www.usc.es/biogrup



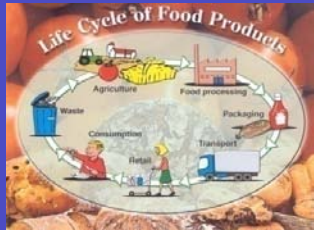
8 Profesores

- 4 Catedráticos
- 2 Prof. Titulares
- 2 Prof. Cont. Doc.

5 Técnicos

4 Investigadores Post-Doc

26 Estudiantes de Doctorado



Análisis de Ciclo de Vida

- Metodología: Sistemas multifuncionales; Análisis ICV: DEA & ACV; EICV: factores de caracterización.
- Sector primario: agricultura, forestal, pesca, alimentación...
- Biocombustibles & Bioenergía
- Análisis de procesos
- Tecnologías ambientales: Gestión de Agua y Residuos



Huella de Carbono

- Aspectos metodológicos
- PAS 2050 -2060
- Calculadoras de CO₂

ANÁLISIS DE CICLO DE VIDA

Pesca & Acuicultura

Pesca industrial: Atún

Pesca tradicional:
merluza, sardina...

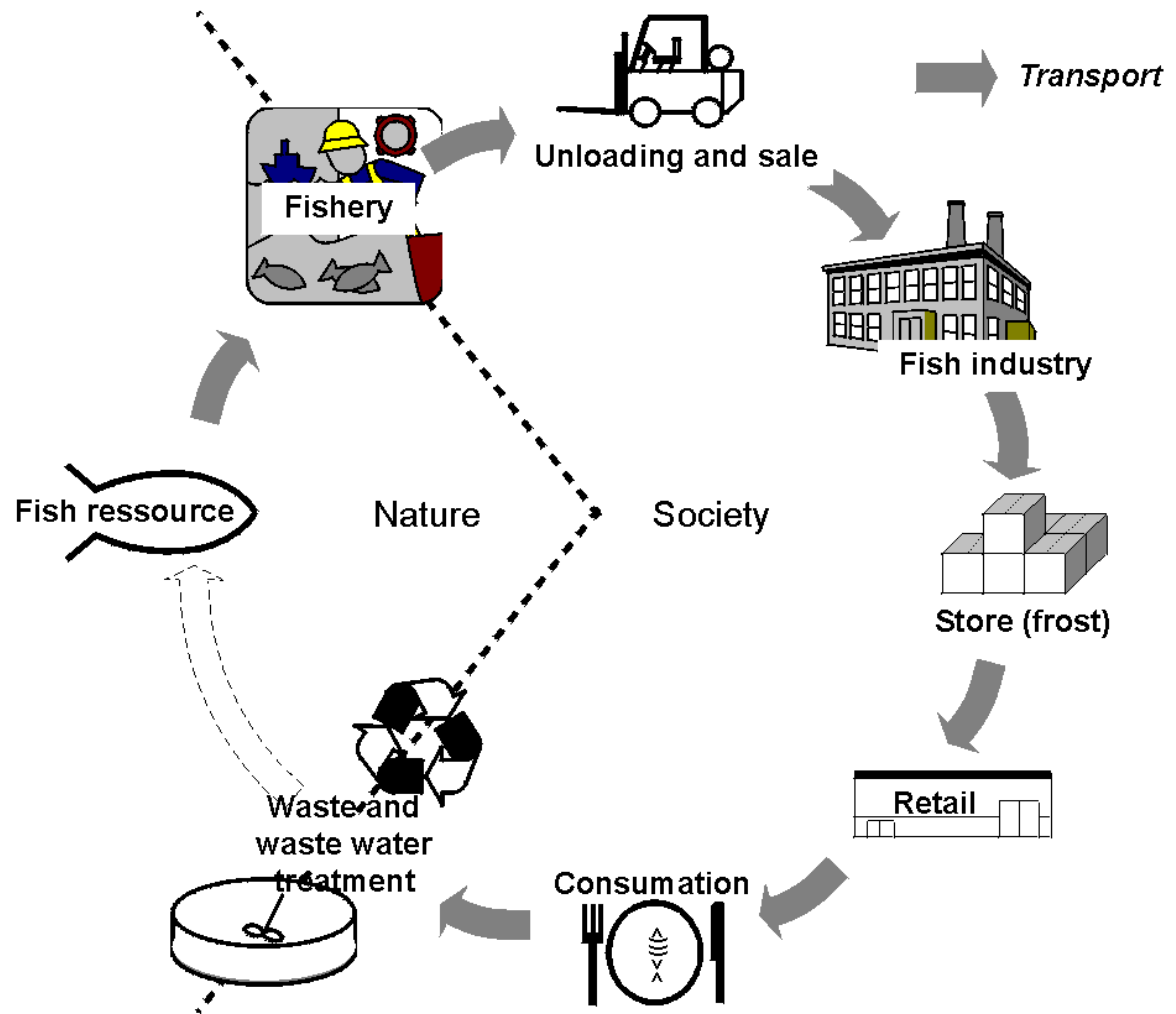


Acu

Extensiva: mejillón

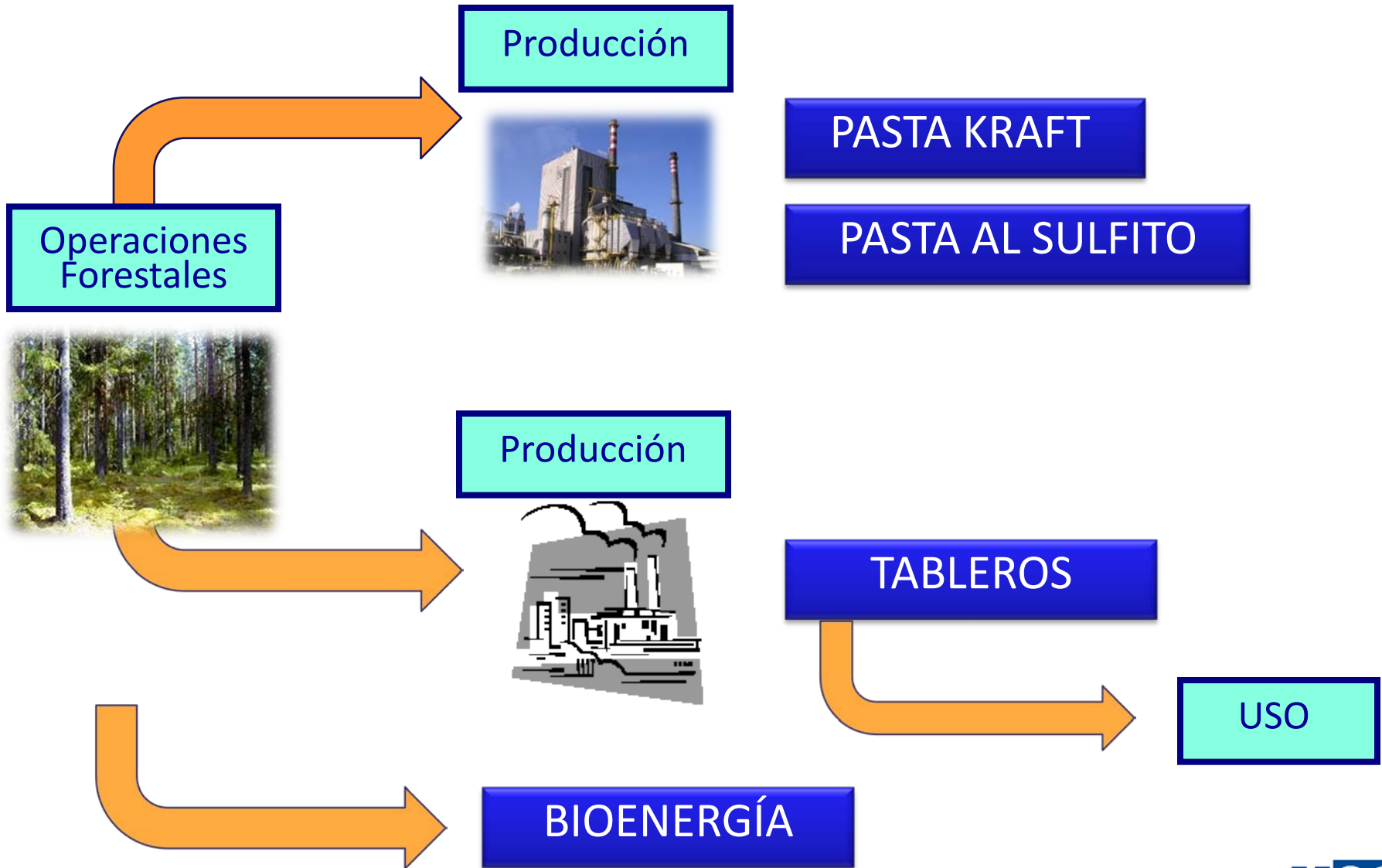


Intensivo: salmón



ANÁLISIS DE CICLO DE VIDA

Sector Forestal



ANÁLISIS DE CICLO DE VIDA

Transferencia de Tecnología

- ✓ 3R Ingeniería Ambiental
- ✓ AQUAGEST
- ✓ ARLEX
- ✓ AZTIC
- ✓ Celulosas de Levante SA
- ✓ CENFIM
- ✓ INEDIT
- ✓ IRTA
- ✓ Las Cinco Jotas
- ✓ Leiden University (Holanda)
- ✓ M114
- ✓ Ministerio de Ciencia e Innovación

Galopin



ENISA

Conservar Garavilla, S.A.

PESCANOVA



FINSA o de
soluciones en madera



abertis
autopistas

- ✓ Empresa Nacional de Innovación
- ✓ ENCE
- ✓ Estudio de Arquitectura Ruiz-Larrea y asociados
- ✓ European Forest Institute (Finlandia)
- ✓ FEIRACO
- ✓ FINSA
- ✓ Forestry Research Institute (Suecia)
- ✓ Fundación ABERTIS
- ✓ Galopin Parques
- ✓ MUEBLES PERMIU
- ✓ PESCANOVA
- ✓ DEVESA
- ✓ Santa & Cole
- ✓ Universidad Autónoma de Barcelona
- ✓ Universidad de Girona
- ✓ Universidad de la Rioja
- ✓ Universidad del País Vasco
- ✓ Universidad Pompeu Fabra
- ✓ Universidad de Sevilla
- ✓ University of Surrey (Reino Unido)
- ✓ Wood-Kplus (Austria)
- ✓ Xunta de Galicia

2003-2011	h-index
SCOPUS	11

Ranking	Año	Artículo	Publicación	CITAS
1º	2008	Testing the assertion that “local food is best”: the challenges of an evidence based approach	Trends in Food Science & Technology	41
2º	2003	Simplified life cycle assessment of galician milk production	International Dairy Journal	37
3º	2005	Life cycle environmental impacts of Spanish tuna fisheries	Fisheries Research	19
4º	2005	Environmental evaluation of different treatment processes for sludge from urban wastewater	International Journal of Life Cycle Assessment	19
5º	2004	Life Cycle Assessment as a Tool for the Environmental Improvement of the Tannery	Environmental Science & Technology	17
6º	2006	Life cycle inventory of particleboard: A case study in the wood sector	International Journal of Life Cycle Assessment	15
7º	2004	Environmental performance of a municipal wastewater treatment plant	International Journal of Life Cycle Assessment	15
8º	2006	Environmental assessment of canned tuna manufacture with a life-cycle perspective	Resources ,Conservation & Recycling	14
9º	2009	Life Cycle Assessment of Flax Shives derived Second Generation. Ethanol Fueled Automobiles in Spain	Renewable & Sustainable Energy Reviews	12
10º	2007	Life cycle inventory of medium density fibreboard	International Journal of Life Cycle Assessment	11
11º	2006	Life cycle assessment of wood wastes: A case study of ephemeral architecture	Science of the Total Environment	11
12º	2009	The link between operational efficiency and environmental impacts. A joint application of Life	Science of the Total Environment	10
13º	2009	Environmental impact assessment of total chlorine free pulp from Eucalyptus globulus in Spain	Journal of Cleaner Production	10
14º	2008	Environmental performance of wastewater treatment plants for small populations	Resources ,Conservation & Recycling	10
15º	2008	A comparison of municipal wastewater treatment plants for big centres of population in Galicia (Spain)	International Journal of Life Cycle Assessment	10
16º	2009	The role of seasonality in lettuce consumption: a case study of environmental and social aspects	International Journal of Life Cycle Assessment	8
17º	2010	Revisiting the life cycle assessment of mussels from a sectorial perspective	Journal of Cleaner Production	7
18º	2010	Combined application of life cycle assessment and data envelopment analysis as a methodological	International Journal of Life Cycle Assessment	6
19	2009	Comparative environmental assessment of wood transport models. A case study of a Swedish pulp	Science of the Total Environment	6
20º	2009	Environmental aspects of ethanol based fuels from Brassica carinata. A case study of second generation	Renewable & Sustainable Energy Reviews	6