

Lintelcomp

STI Viewer for the Al use case

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1. The Al LL use case: overview & goals

SEDIA as one of intelComp testers: Al living lab

A **use case** created to experiment with IntelComp tools (IMT, STI Viewer & STI Portal)



SECRETARÍA DE ESTADO DE DIGITALIZACIÓN E INTELIGENCIA ARTIFICIAL

Stakeholders playing a relevant role to streamline and optimise the use case (co-creation & experimentation at work)





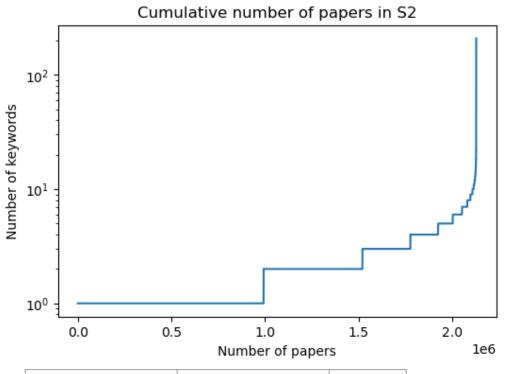
1. The Al LL use case: overview & goals

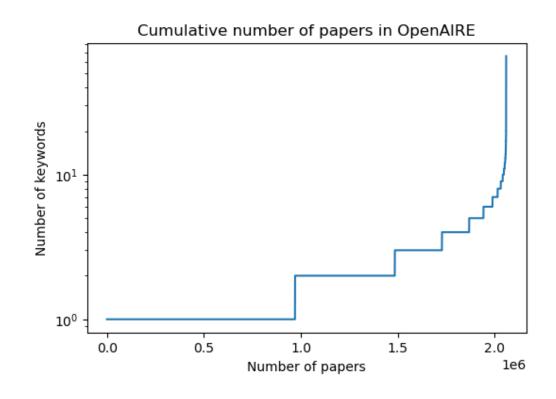
Primary Goal: Provide a full picture of the Spanish STI-Al ecosystem to optimise policy action. + Two (complementary) secondary goals Serve as a useful instrument to Fully and effectively involve meet the main Spanish strategic the four components of the policy guidelines on Al "quadruple helix"

2. STI Viewer: definition of datasets

 Starting point: A list of 266 Al-Keywords (domain specific & curated by experts) have been used to build two datasets (publications, patents European-projects: dataset 1 (at least 1 Al keyword) & dataset 3 (at least three keywords)







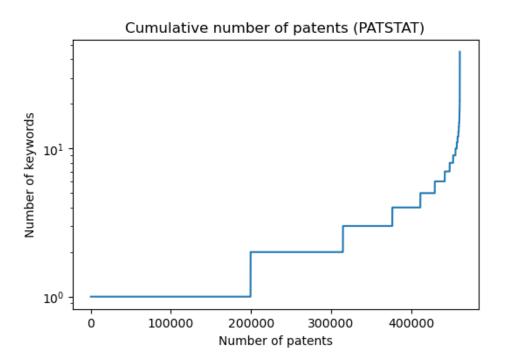
	Semantic Scholar	Papers with 1+ Kwds	2.128.190	
		Papers with 3+ Kwds	608.155	
	OpenAIRE	Papers with 1+ Kwds	2.058.409	
		Papers with 3+ Kwds	574.346	





2. STI Viewer: definition of datasets

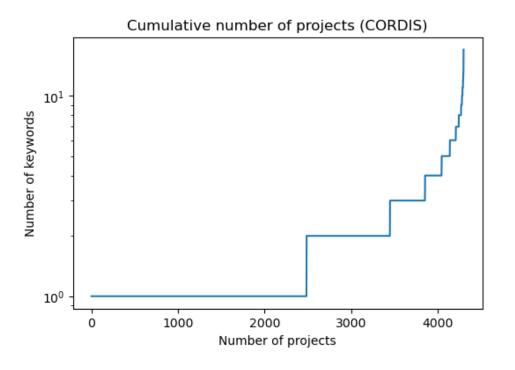
Patents



Patents with 1+ Kwds: 460.820

Patents with 3+ Kwds: 146.022

EU Projects (CORDIS)



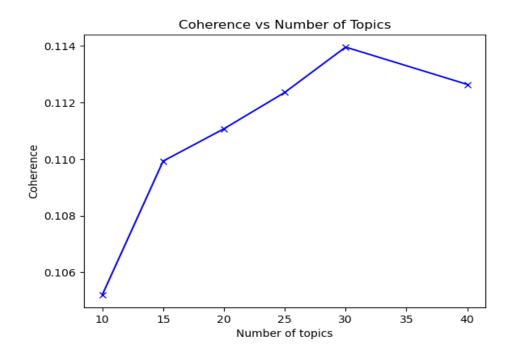
Projects with 1+ Kwds: 4.301

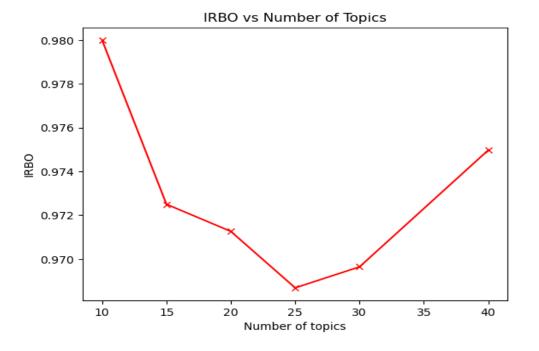
• Projects with 3+ Kwds: 852





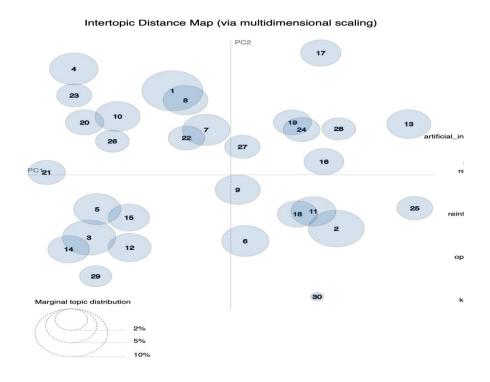
3. STI Viewer: Topic modeling



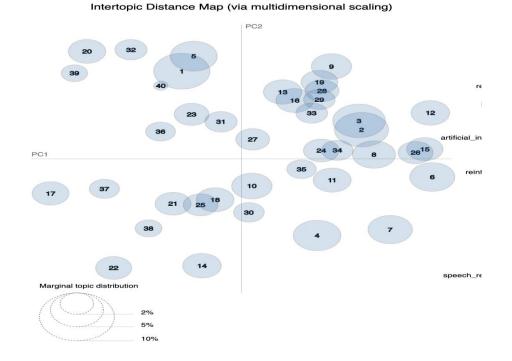




3. STI Viewer: Topic modeling



20 topics

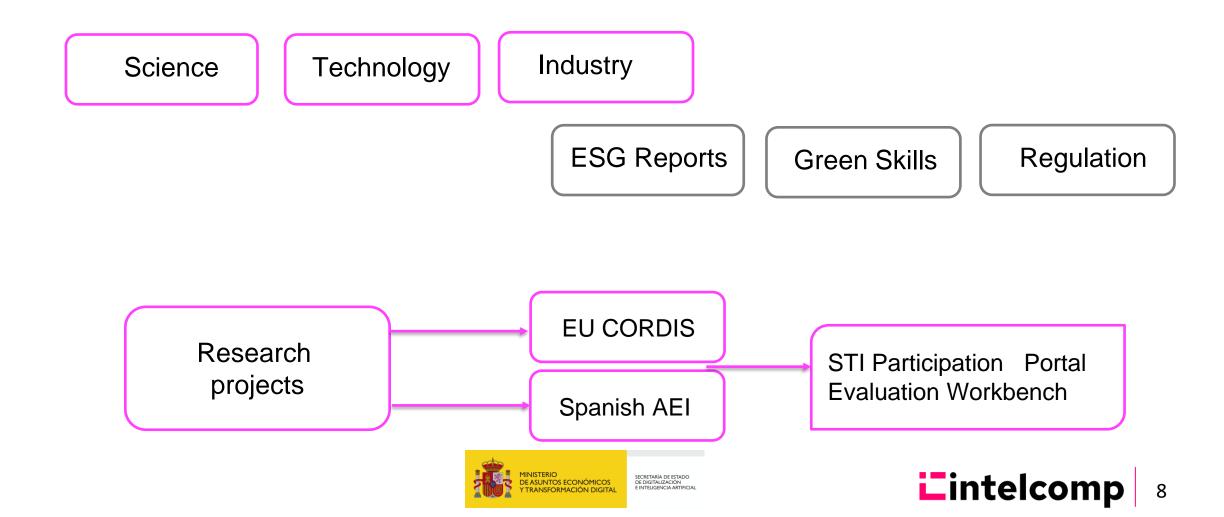


25 topics





4. STI Viewer: Type of information & indicators available

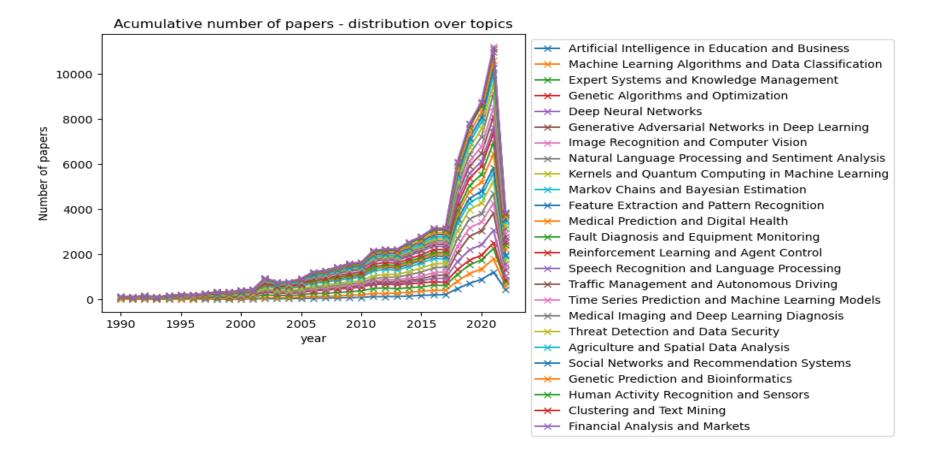


4.1. STI Viewer: Science indicators



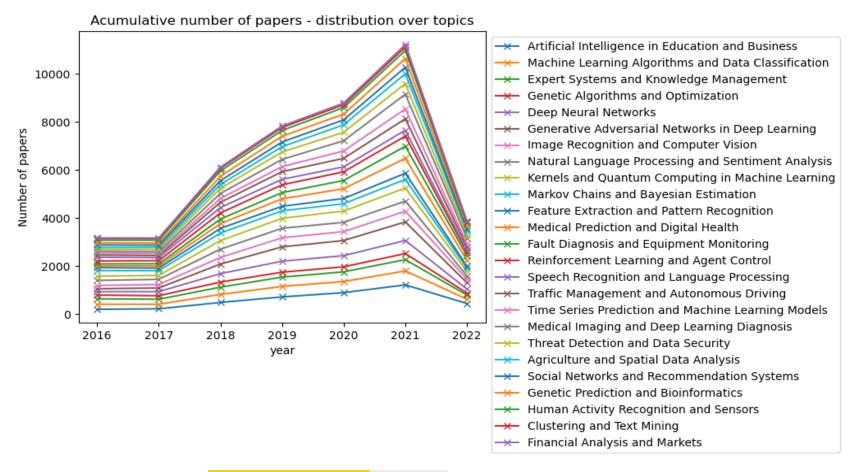


EU Science: scientific production trends





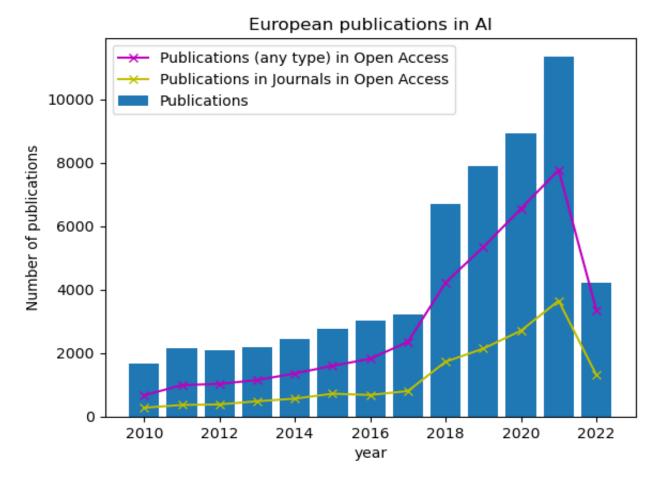
Science: EU scientific production trends (zooming)







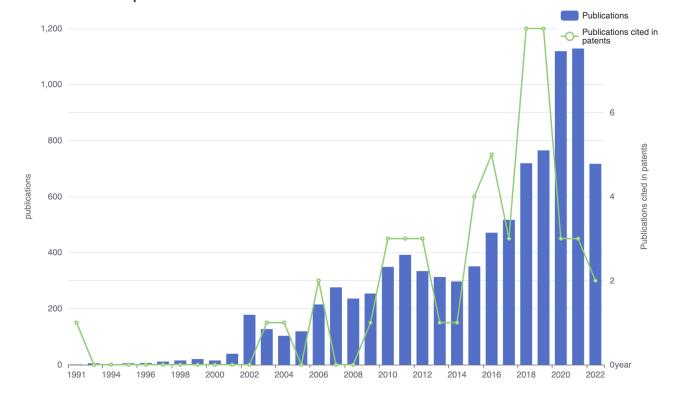
Science: EU scientific production trends



Science: Spanish scientific production trends

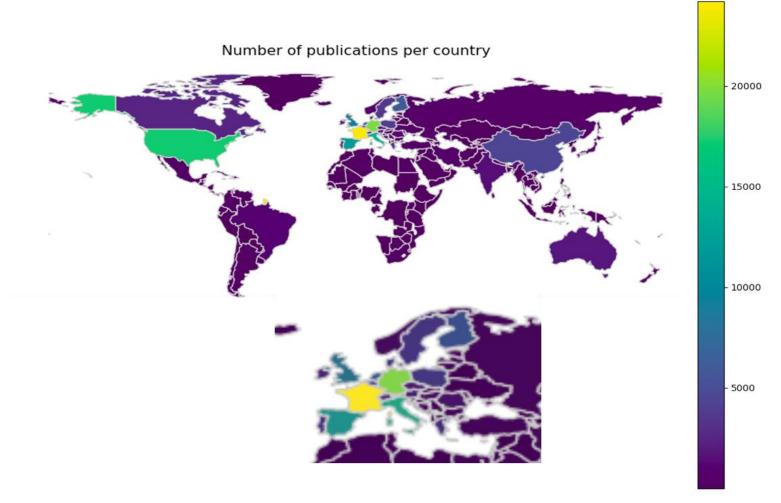
Spanish Al publications

Publications cited in patents

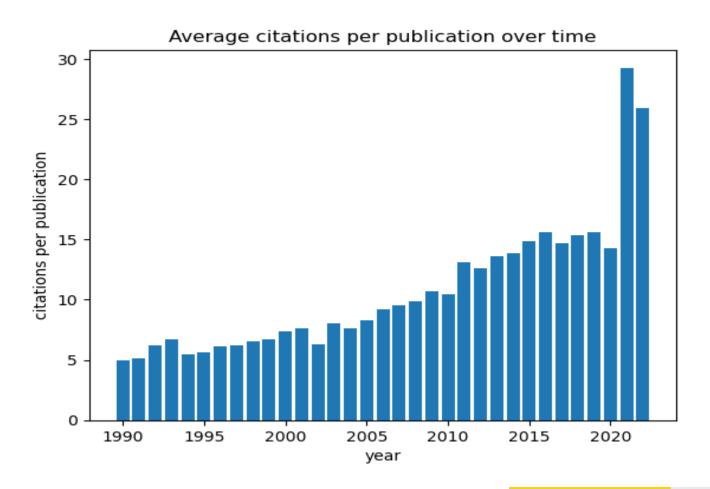




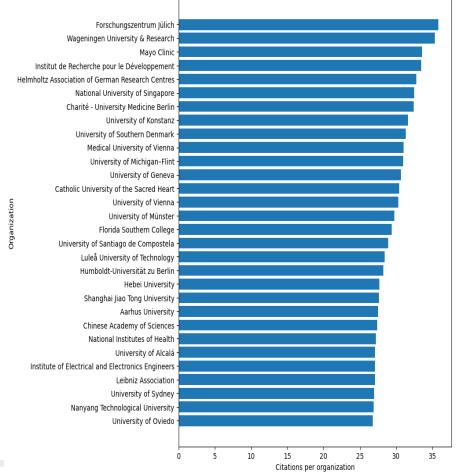
Science: EU scientific production origins



Science: EU scientific impact trends

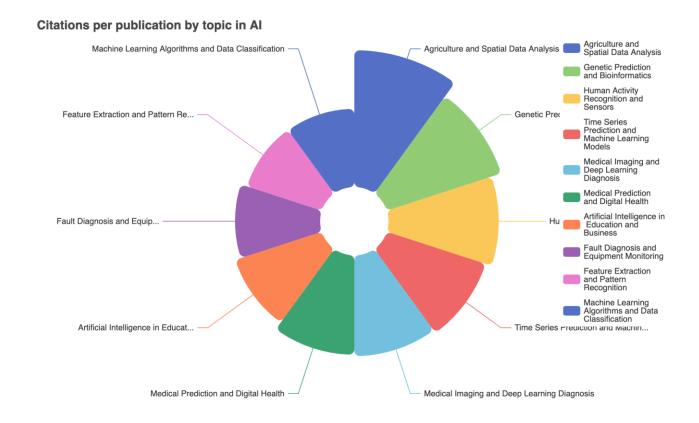


Top 100 organizations in terms of the average number of citations per publication in AI





Science: Spanish scientific impact trends





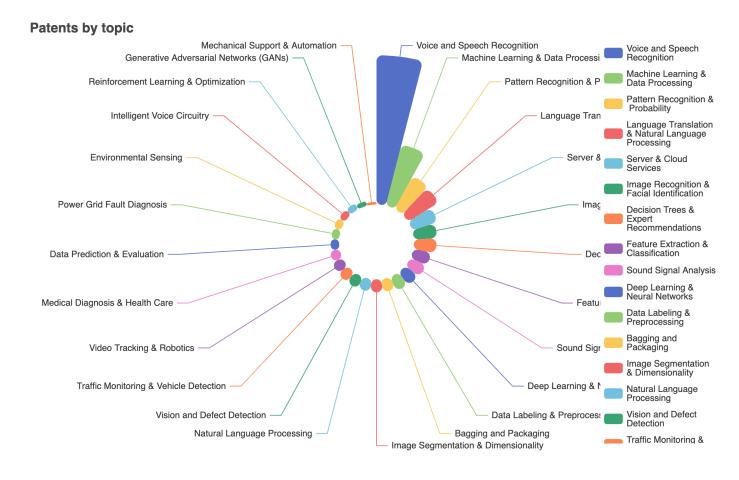


4.2. STI Viewer: Technology indicators





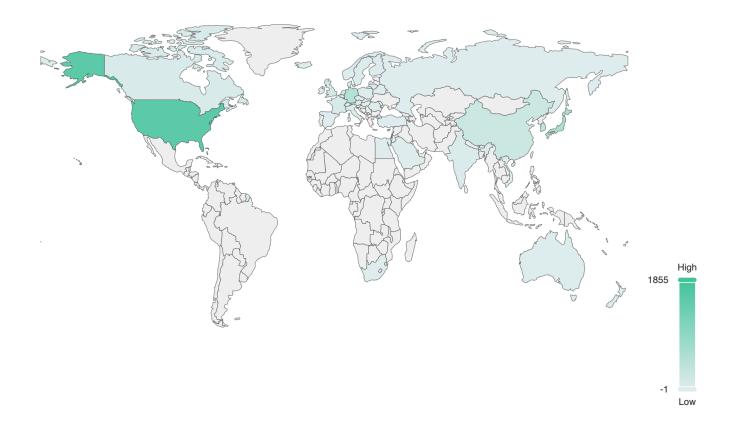
Technology: EU technological production characteristics







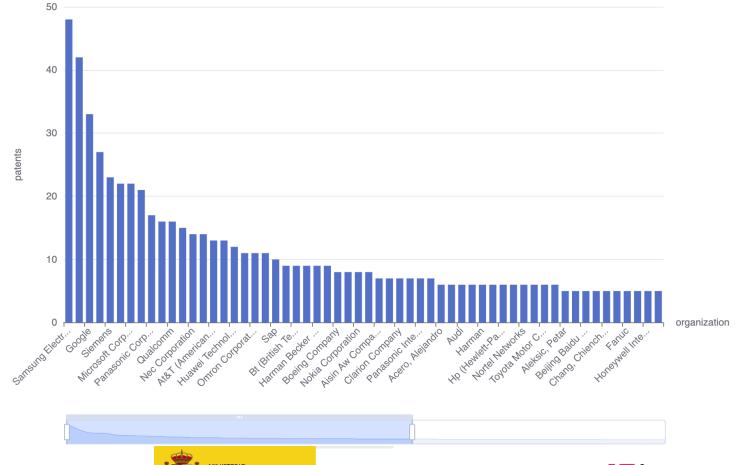
Technology: EU technological production characteristics
Patents by country





Technology: EU technological production characteristics

Patents by Organization (top 100)





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Thank you very much!

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