INTELCOMP DATA TOOLS

A "teaser" presentation of how IntelComp will work in practice

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IntelComp Platform

 An end-to-end platform for evidence-based <u>monitoring</u>, <u>evaluation</u> and <u>policy making</u>

- Guiding principles:
 - Openness & Reproducibility: Using mainly open data related to science, technology
 and innovation (STI) across different domains + open, transparent, reproducible
 methodology
 - Relevance: analyze massive amounts of data from different sources to create a wellrounded view of the impact of STI policies



IntelComp Platform

- State of the art technology: exploiting artificial intelligence models: deep learning, NLP
- Reliability Human-in-the-loop: Expert validated models and tools for creating your own models
- Timeliness: up-to-date analysis



IntelComp Platform

→ User-friendly, Customizable Business Intelligence Tool for policy monitoring & evaluation

- co-created with users + "analyze my data" functionality
- interactive & downloadable AI visualizations for comparisons, analysis & reporting
- private organization dashboard (manager + team members)
- search & browsing tools based on semantic similarity and more

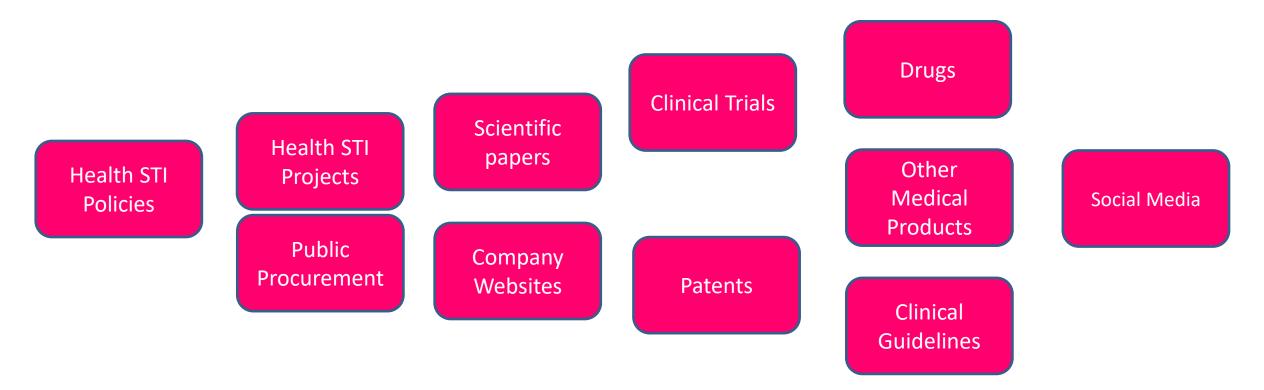
workbench of tools & functionalities for project evaluation

Further advancing technologies already tested in two previous experiences: **Corpus Viewer & Data4Impact**



A use case in the Health domain: Selection of Data Sources

Identification of Health-related data sources



Suggestions?

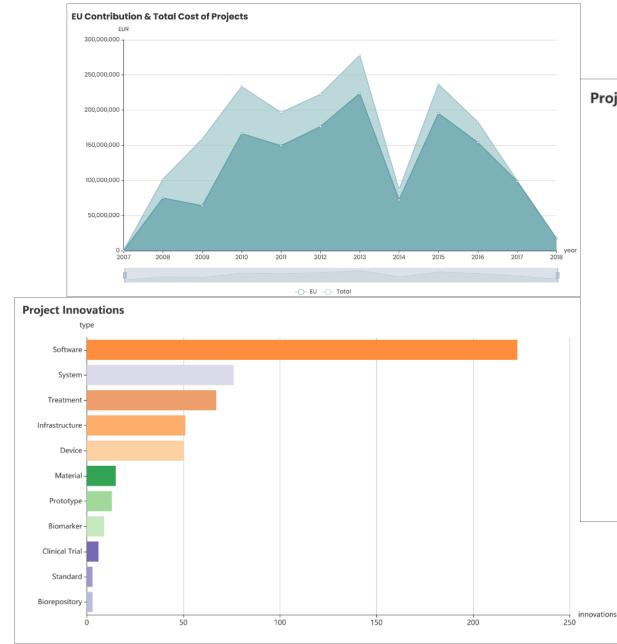
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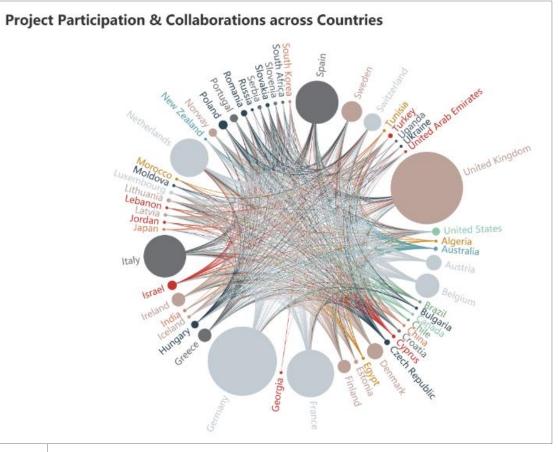
Lintelcomp

Policy Qs: Agenda Setting: Intelligence gathering, problem identification

Area	Policy Question	Data Sets	IntelComp Services
Entrepreneurial Activity	 Are companies adapting to technological transformation trends in their respective sectors? How do they compare with major (international) competitors? Which companies emerge with specific disruptive technologies in the country/macroregion/region/city? 	Companies Websites Scientific papers Patents Clinical Trials Drugs, Medical products	 Detect technological transformation trends in a specific sector Temporal evolution of topics detection of lead-lags Comparison of innovations output & activities across companies Comparison of topic distribution in corpus by country. Economic Impact Analysis
Knowledge Creation	 Which scientific fields demonstrate the highest growth in terms of publications/citations globally? Which are the emerging interdisciplinary fields globally? Which are the research teams in the country undertaking research in these fields? 	Scientific papers Grants Patents Company Websites	 Distribution of topics in corpus Trends Emerging & new topics Timeliness of investment (projection of own projects to rest of Health) Exclusivity of investment (how many others funding the field) Collaboration network analysis Academic Impact analysis (citations, topics)
Guidance	 To which global, EU societal challenges (i.e. living lab specific) are research groups contributing to? 	Scientific papers Grants Clinical guidelines	 Specific EU societal challenge identification in corpus Automatic classification of public funding proposals and grants by EU societal challenge SDG Classification
Market	 What is the role of public procurement for these technologies? 	EC Public tenders National Public tenders Company websites	Identification of innovation outputs in health due to public procurement
Resources mobilizat.	 What are the national/regional financial resources available in the country? Are they used to leverage EU funding through synergies? Is there a gap between supply and demand? 	EU grants National grants Job postings	 Presence of health-related topics in EU grants, national grants Comparison of public funding in corpus (i.e. EU grants, national grants) by topic in a specific sector, e.g. types of cancer Comparison of topic distribution in corpus (job supply, job demand).

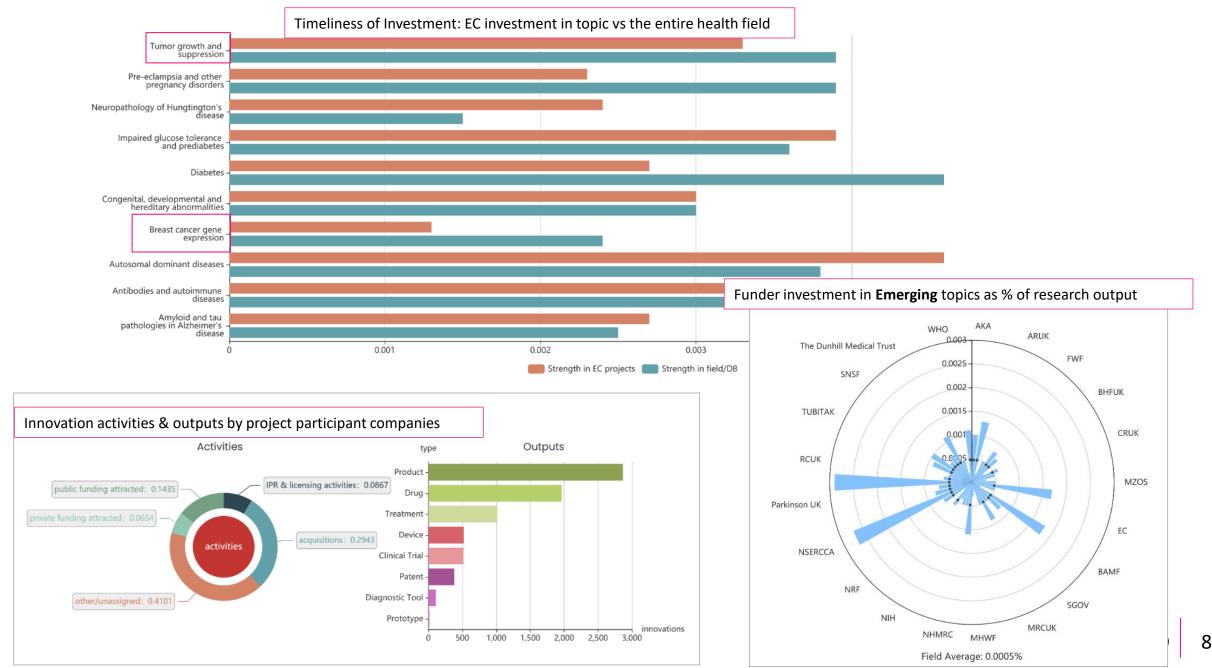
Use Case: EC projects in Non-Communicable Diseases - includes most forms of Cancer







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Poll question!

(2) From what you have seen, do you think IntelComp tools will help you in your work?

Yes, matches our needs very well Yes, partially

Maybe, I am not sure yet

No

