

Interreg

CENTRAL EUROPE



European Union
European Regional
Development Fund

PROSPECT2030

TAKING
COOPERATION
FORWARD



4th Project meeting

Online | 28-10-2020



How to read/show complexity with Sankey diagrams



PROSPECT2030 | Politecnico di Torino | Giulio Cerino Abdin

Sankey and Energy:

- Eurostat e other Sankey diagram

Tools:

- Software and web app

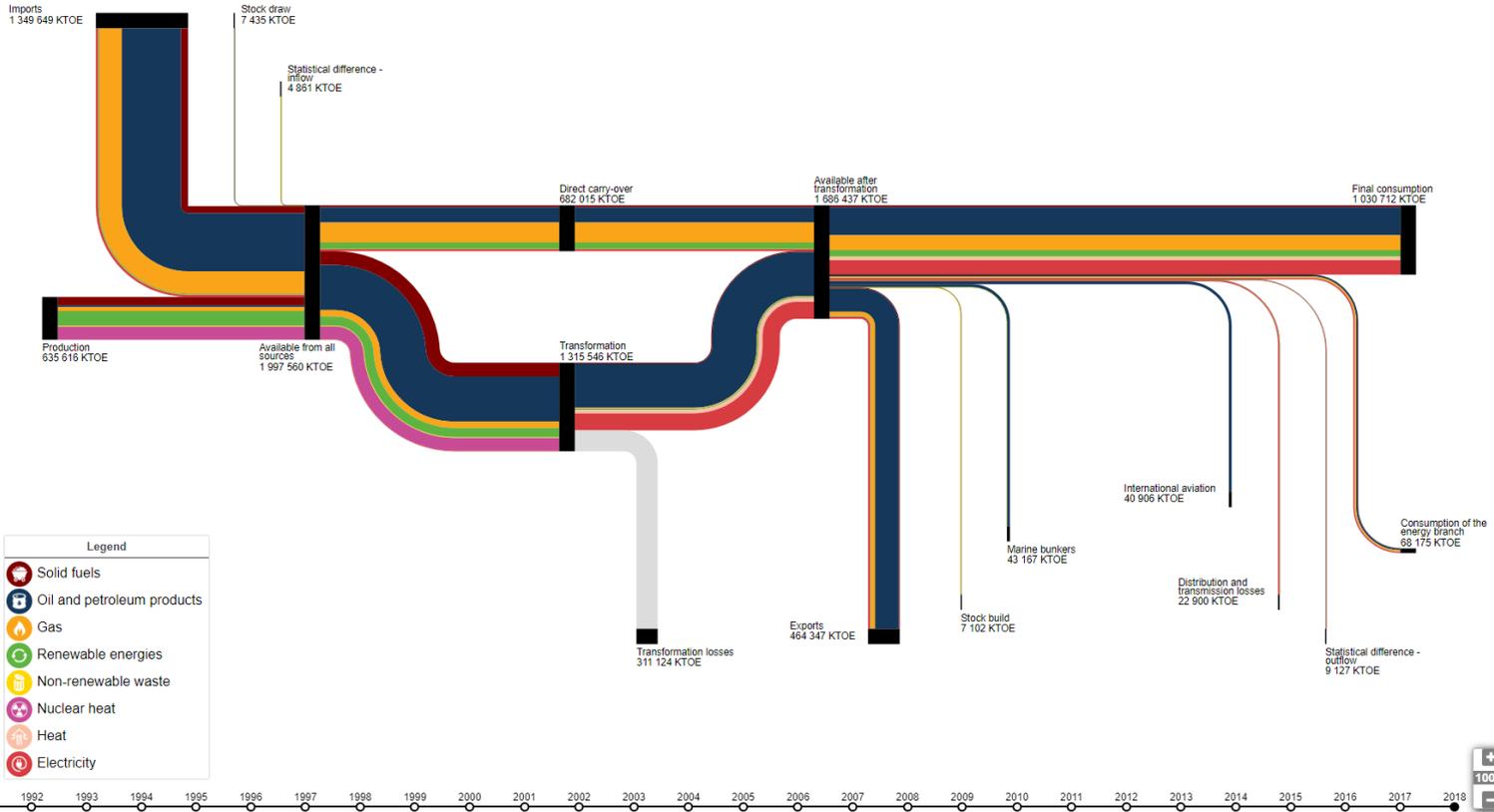
PROSPECT:

- Partner needs

Next steps



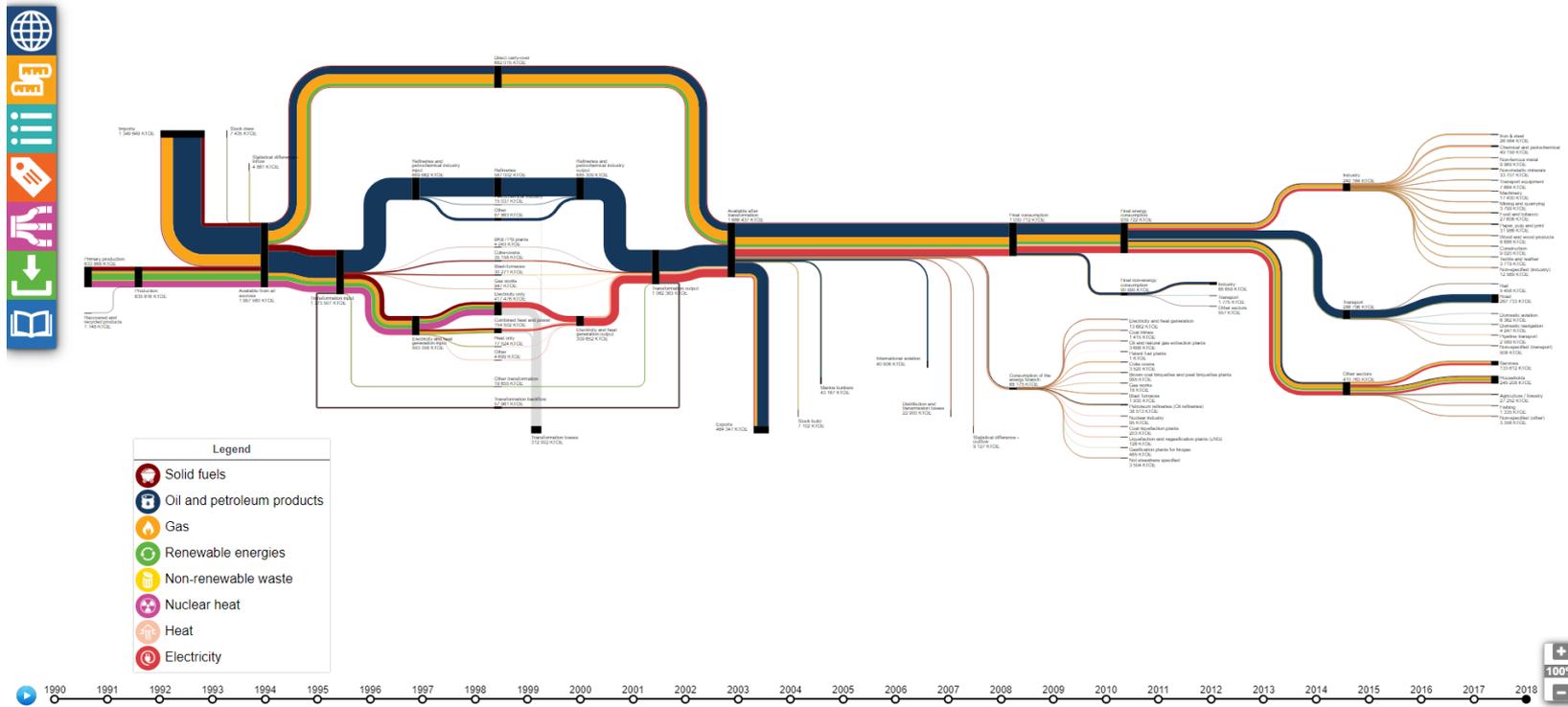
EUROSTAT - SANKEY TOOL



<https://ec.europa.eu/eurostat/cache/sankey/energy/sankey.html>



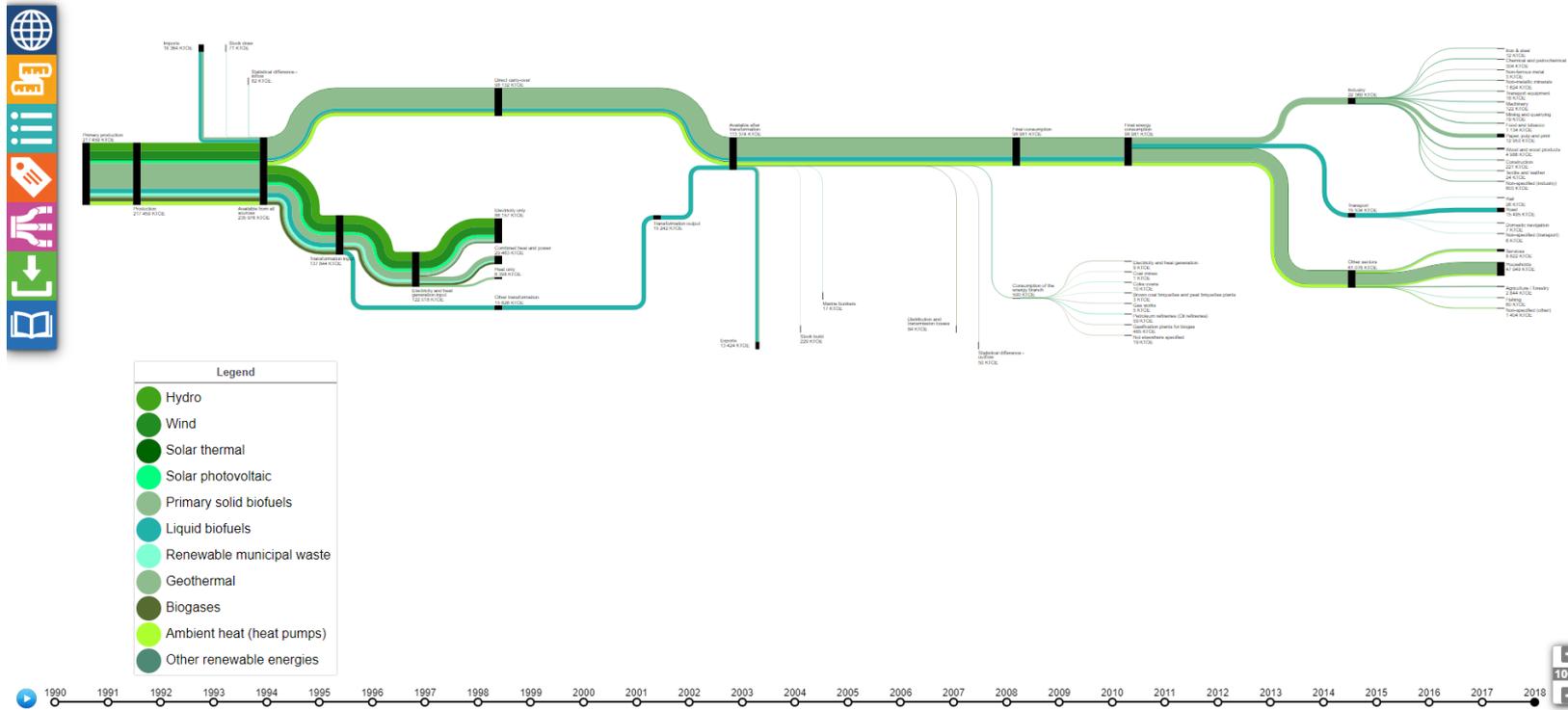
EUROSTAT - SANKEY TOOL



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EUROSTAT - SANKEY TOOL

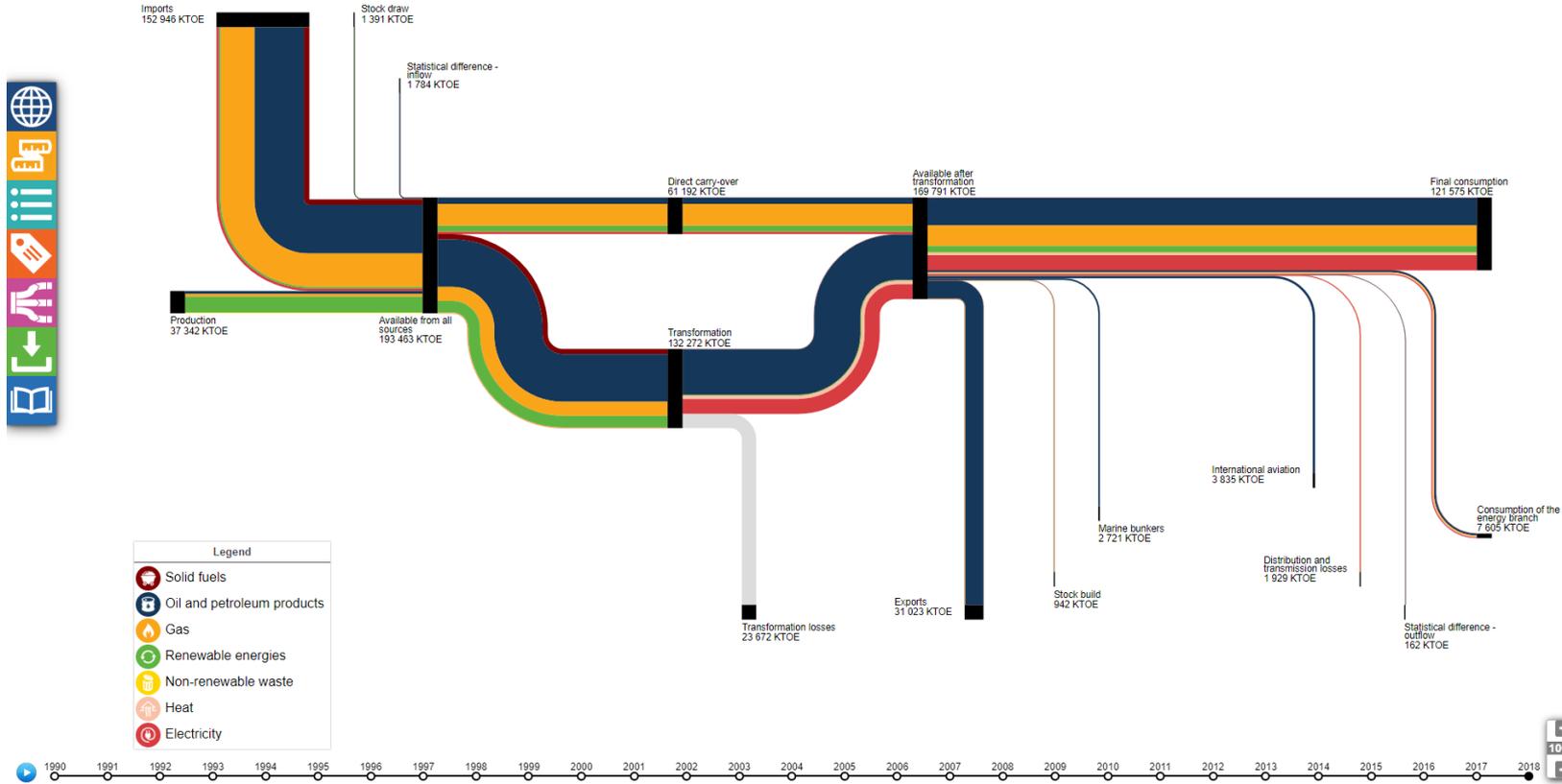


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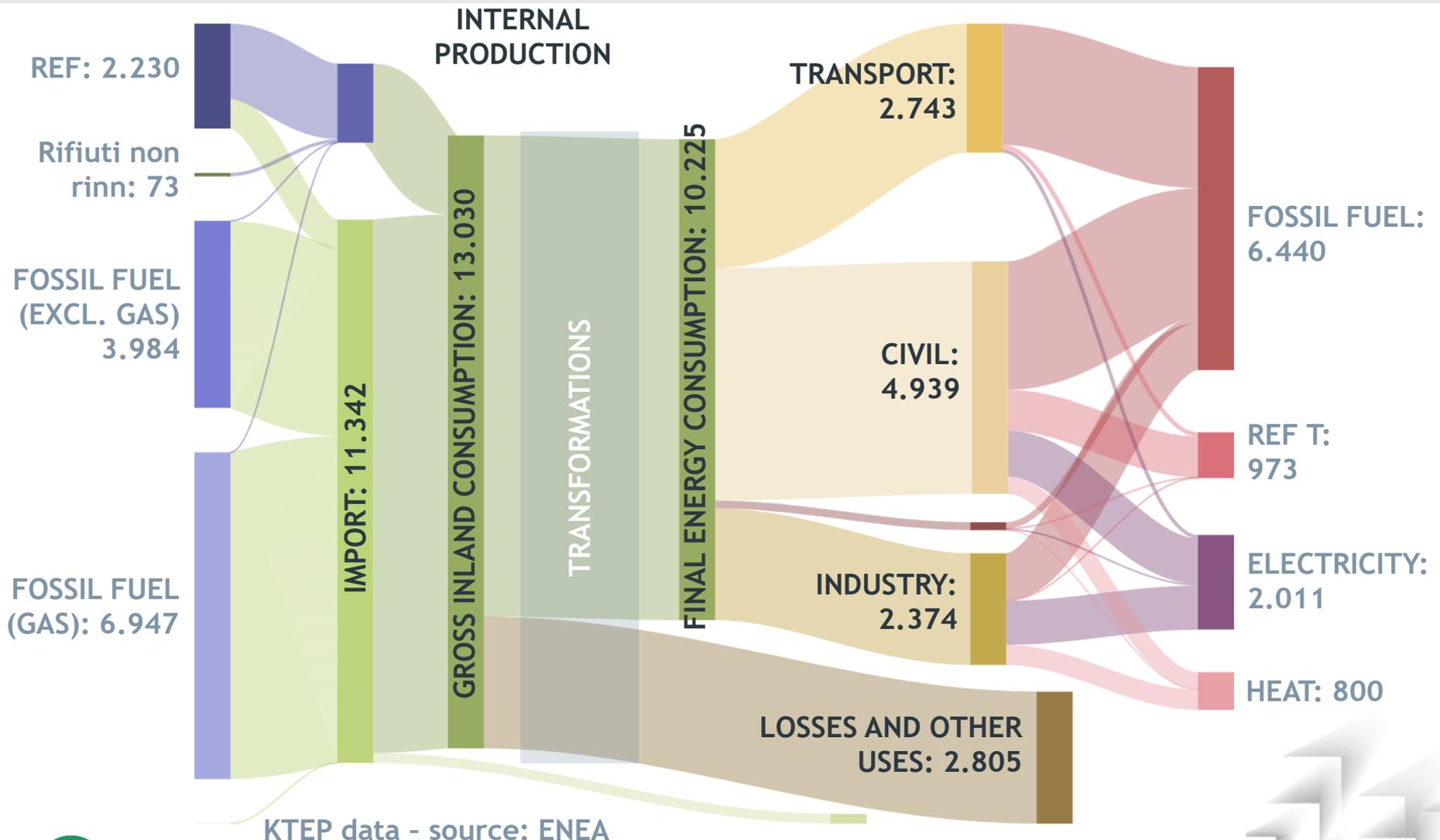


EUROSTAT - ITALY SANKEY TOOL

eurostat  Energy balance flow for Italy 2018 Twitter Facebook LinkedIn English (EN)



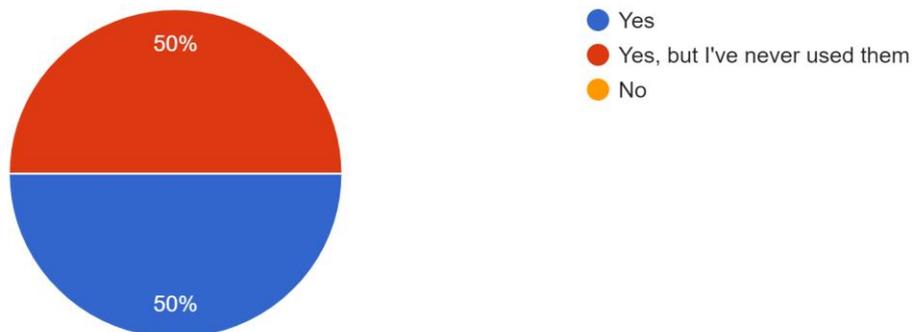
REGIONE PIEMONTE REGIONAL ENERGY BALANCE 2017



SANKEY DIAGRAM AS A TOOL IN ENERGY PLANNING | PROSPECT2030 NEEDS

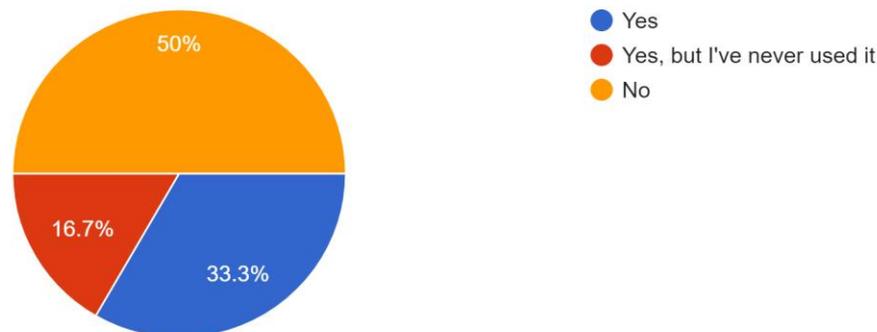
3. Were you already aware of the Sankey diagrams?

6 responses



4. Were you already aware of the Eurostat tool at national level?

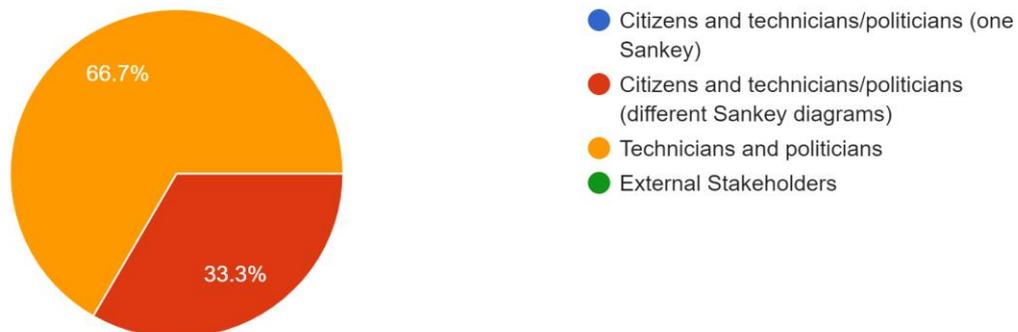
6 responses



SANKEY DIAGRAM AS A TOOL IN ENERGY PLANNING | PROSPECT2030 NEEDS

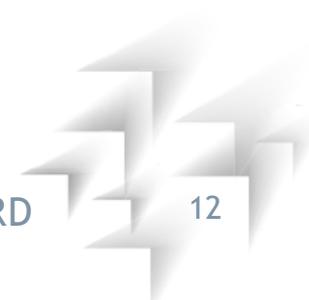
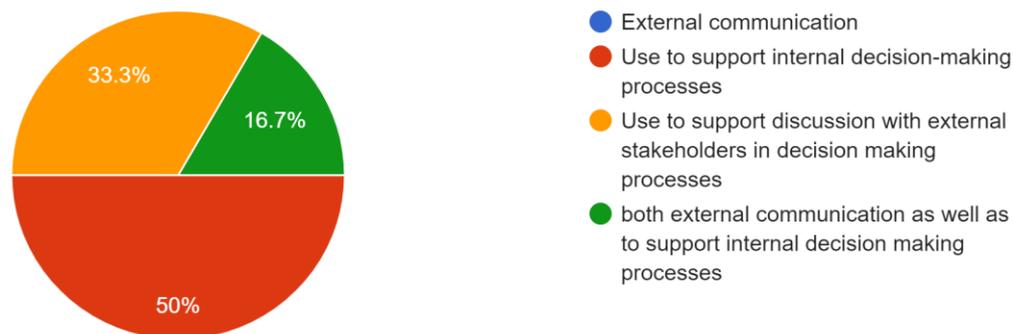
5. To whom do you think the Sankey diagram should be addressed?

6 responses



6. What do you think the use of Sankey should be within the PROSPECT2030 project?

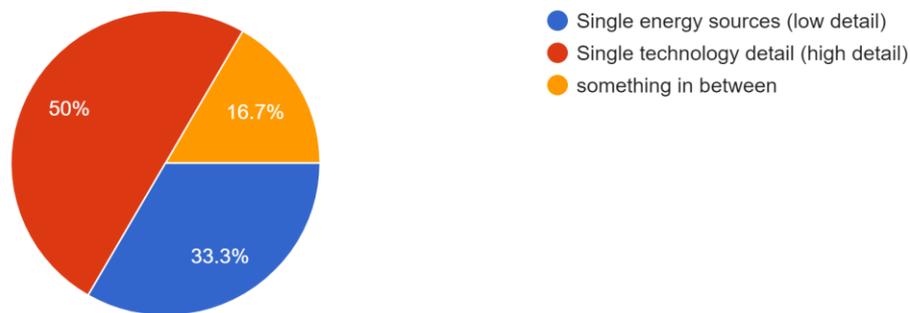
6 responses



SANKEY DIAGRAM AS A TOOL IN ENERGY PLANNING | PROSPECT2030 NEEDS

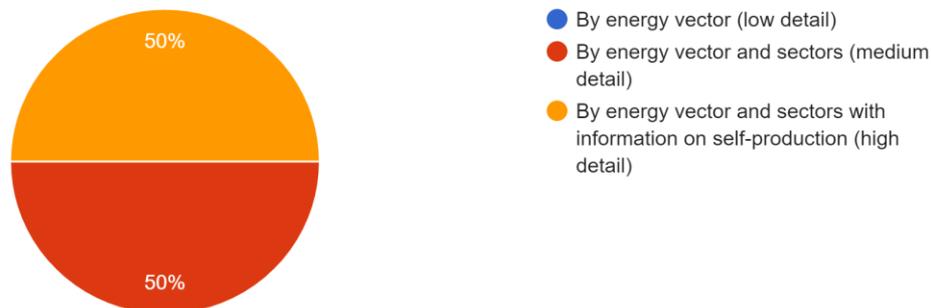
7. Based on available information for your country and compared to the diagrams displayed on Eurostat what do you think the level of detail rep...onversion phases by the Sankey diagram should be?

6 responses



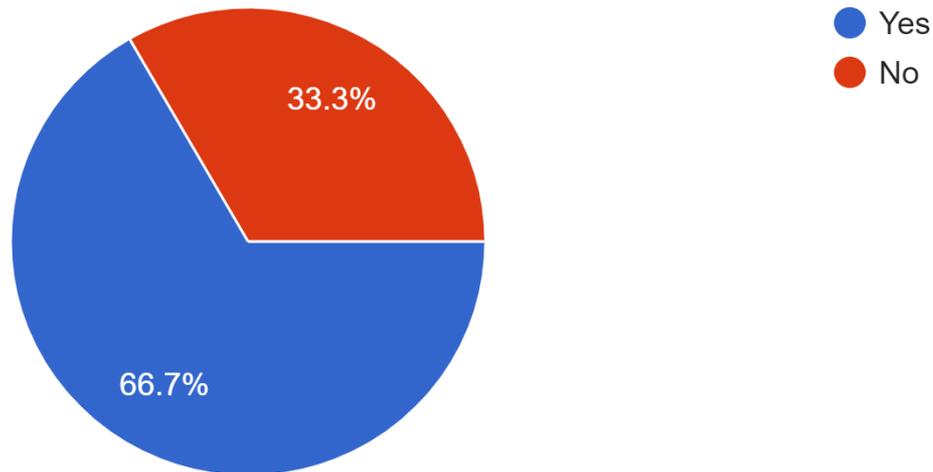
8. Based on available information for your country and compared to the diagrams displayed on Eurostat what do you think the level of detail repr...final uses phases by the Sankey diagram should be?

6 responses

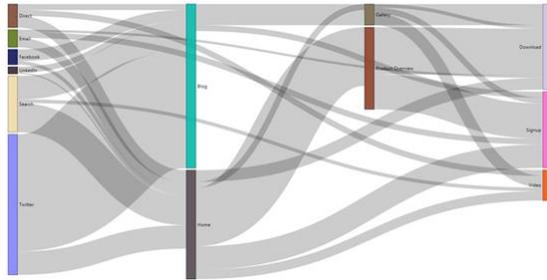


SANKEY DIAGRAM AS A TOOL IN ENERGY PLANNING | PROSPECT2030 NEEDS

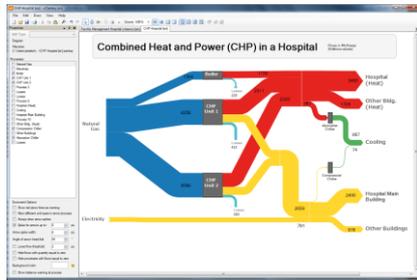
13. Do you think it is necessary to you to be able to independently develop the Sankey diagram?
6 responses



SANKEY SOFTWARE AND TOOLS



- Individual licence
- Interoperability with Microsoft Office
- Easy to Use interface
- <https://powerbi.microsoft.com/it-it/pricing/>

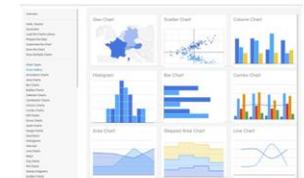


e!sankey[®]
show the flow.

- Individual licence
- Interoperability with Microsoft Office
- Easy to Use interface
- Limited to Sankey
- <https://www.ifu.com/en/e-sankey/>



<https://www.highcharts.com/demo/sankey-diagram>



<https://developers.google.com/chart/interactive/docs/gallery/sankey>



<https://plotly.com/python/sankey-diagram/>

- Free to use (no profit organizations)
- Needs to data conversion (.csv; .json)
- Needs to IT code implementation
- Web ready



SANKEY DIAGRAM AS A TOOL IN ENERGY PLANNING | PROSPECT2030 TOOL

Sankey automatico PROSPECT2030_EnrReg_datacol_EEE_PPT_v6.stm CERNO ABDIN GIULIO

File Home Inserisci Disegno Layout di pagina Formule Dati Revisione Visualizza Sviluppo Guida Fuzzy Lookup ACROBAT Power Pivot

Calibri 11 A A' A''

Generale Prozent 2 Standard 2 Standard 2

Formattazione condizionale Formattata come Tabella

Inserisci Elimina Formato

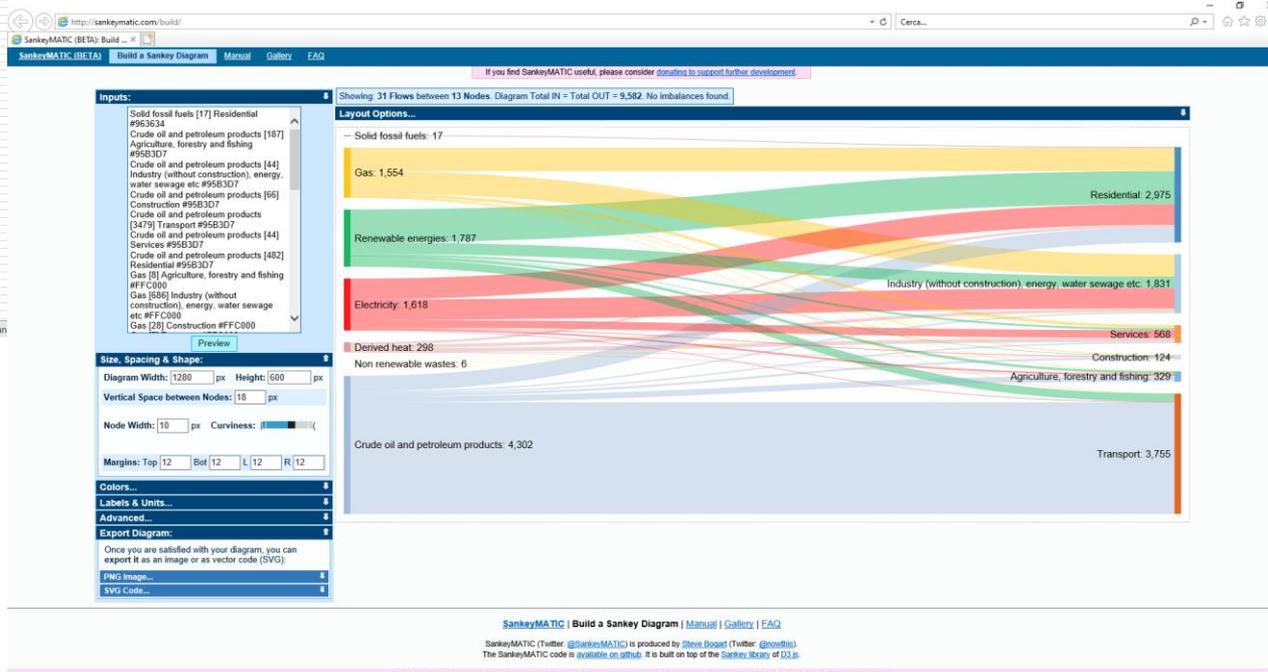
Somma automatica Riempiemento Ordina e filtra Trova e seleziona

Condividi Commenti

Riservatezza

B70

HEC CODE	FLUX	YORBLE	YORBLE	YORBLE	ST STATE	VALU	CODE
#99E001	Solid fossil fuels	YES	#99E001	Residential	Solid fossil fuels	17	#99E001
#99E002	Crude oil and petroleum products	YES	#99E002	Construction	Crude oil and petroleum products	124	#99E002
#99E003	Gas	YES	#99E003	Industry (without construction), energy, water sewage etc.	Gas	1831	#99E003
#99E004	Renewable energies	YES	#99E004	Transport	Renewable energies	329	#99E004
#99E005	Non renewable wastes	YES	#99E005	Services	Non renewable wastes	6	#99E005
#99E006	Electricity	YES	#99E006	Construction	Electricity	124	#99E006
#99E007	Derived heat	YES	#99E007	Industry (without construction), energy, water sewage etc.	Derived heat	298	#99E007
#99E008	Nuclear heat	YES	#99E008	Construction	Nuclear heat	124	#99E008



Critical issues and activities to be carried out

Online meeting to:

- Define the common higher detail level for all the PROSPECT2030 partners
- Integrate the tool in the existing tables
- Evaluate the detail level and possibility to integrate Sankey tool in the scenario analysis

IT beta testing and update to:

- Check compatibility with different O.S. & Microsoft Versions
- Evaluate the possibility to generation the html Sankey file in Excel

