International Logistics SANKEY Diagrams

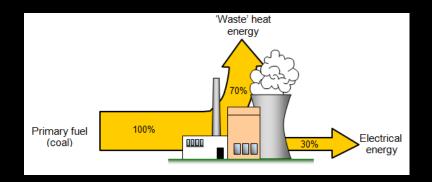
Workshop 7



Project



How to control the <u>flow</u> of materials, information and capital in logistics?

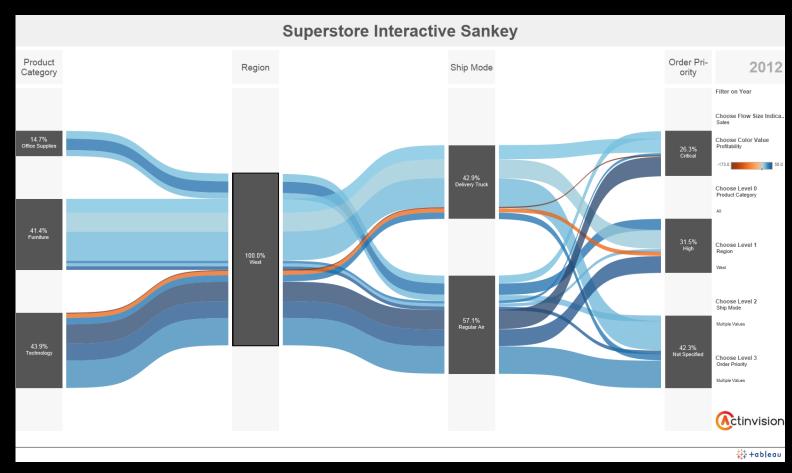


Definition:



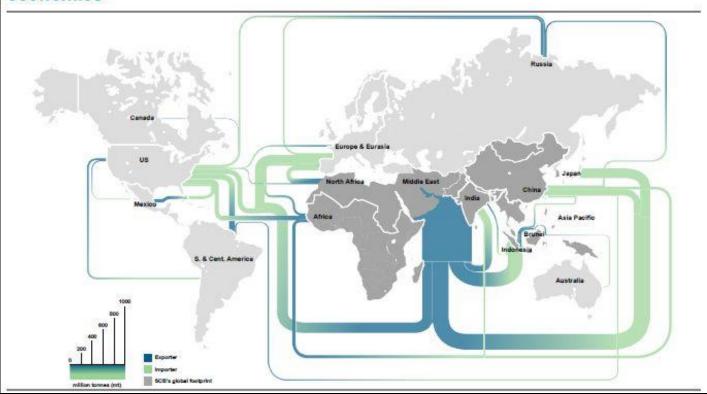
- ✓ SANKEY diagrams specific type of flow diagram that was developed to represent energy flows into a factory / the energy efficiency of a steam engine.
- ✓ The flow is represented by <u>arrows</u> that are shown <u>proportionally</u> to the flow quantity.
- ✓ Sankey diagrams are named after Irish Captain Matthew Henry Phineas Riall Sankey.

Material flow



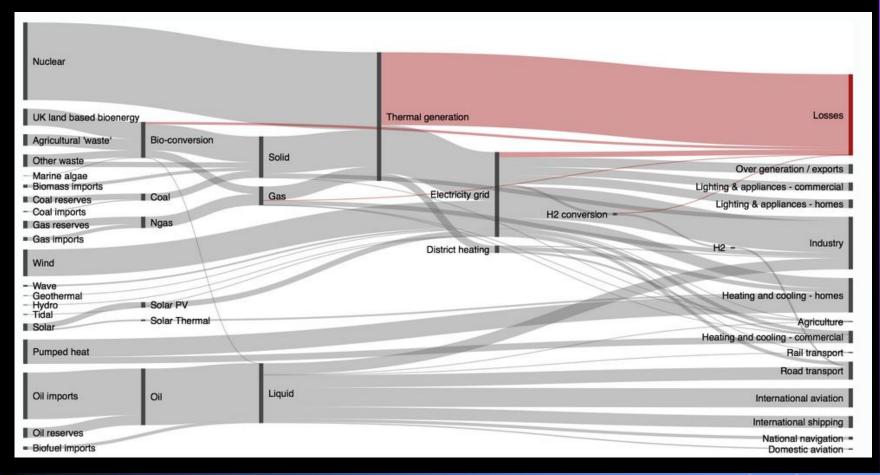
Material flow

Chart 5: Both oil production and demand are strongly connected to emerging economies

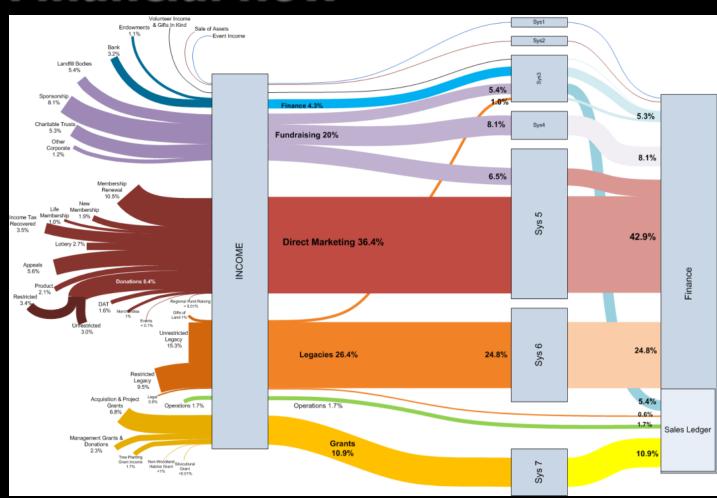


http://blog.tiger.com.pl

Energy flow

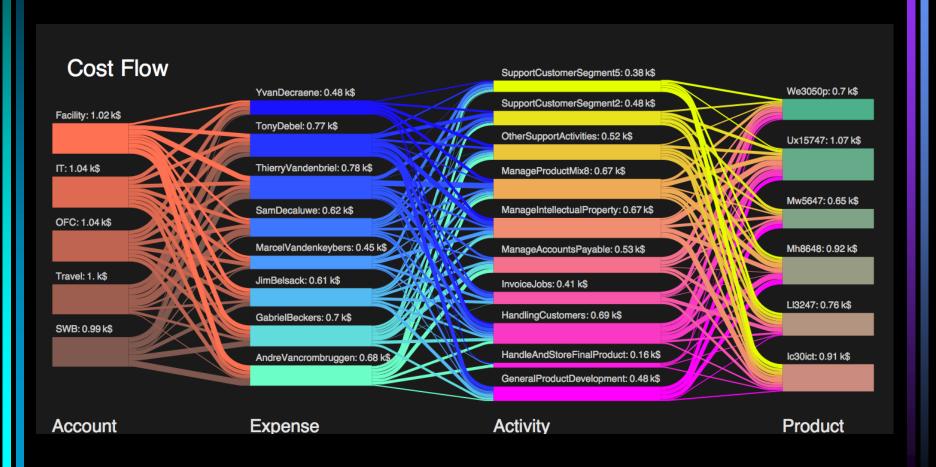


Financial flow



Cash flow

https://visualign.files.wordpress.com



Risk management



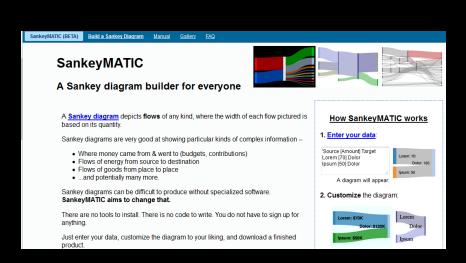
TASK:

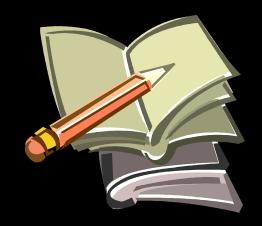
With reference to Sankey Diagrams:

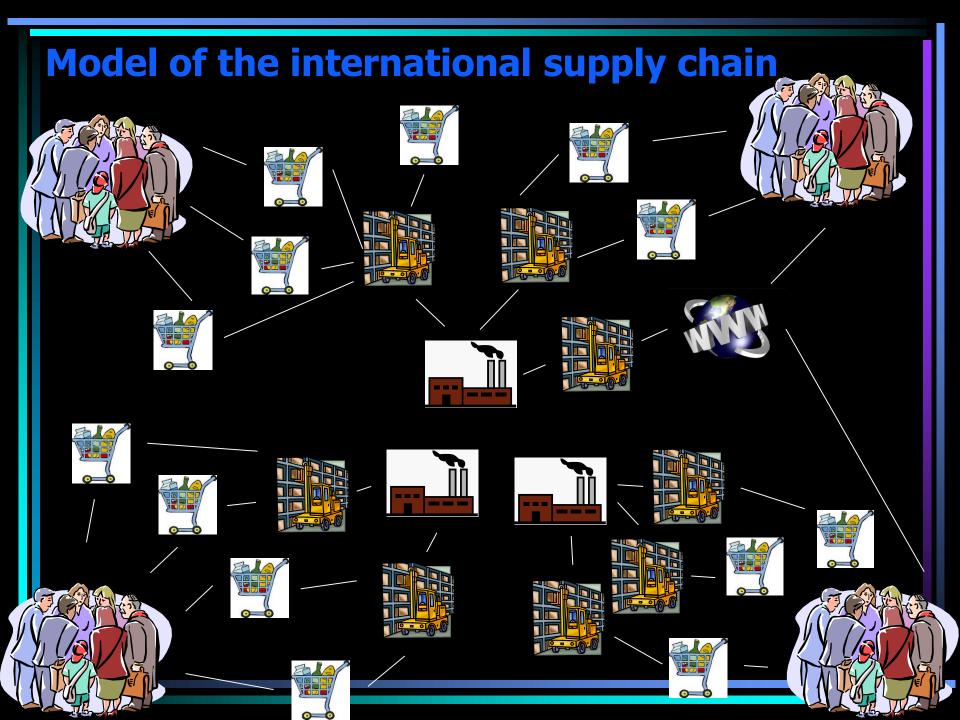
- Display the flow of products within the supply chain.
- 2. Design the management model for the entire SCM.

Link to the software:

http://sankeymatic.com









H. Warszawa: 1,300

Sklep A: 200

Sklep B: 100 -

Sklep C: 500

Sklep D: 500

H. Kraków: 2,500

Sklep E: 2,300

H. Wrocław: 800

Sklep F: 200

H. Poznań: 1,000 Sklep H: 900

ZP3: 6,300

ZP2: 800

H. Berlin: 5,000

Sklepy niemieckie: 4,000

Internet: 1,000

Polska: 150

Europa: 780

USA: 50 Azja: 20





DATA – level I:

PLANT 1	Warehouse 1
1000	W: Paris
2000	W: London
500	W. Warsaw
PLANT 2	
300	W: Paris
500	W: London
PLANT 3	
300	W: Warsaw
1000	W: Budapest
5000	W: Berlin



DATA – level II:

W: Paris		1300
	200	Shop A
	100	Shop B
	500	Shop C
	200	INTERNET
	100	Returns to Plant 1
	200	Returns to Plant 2
	1300	

W: London		2500
	500	Shop D
	1800	Shop E
	100	INTERNET
	0	Returns to Plant 1
	100	Returns to Plant 2
	2500	

W. Warsaw		800
	200	Shop F
	500	Shop G
	50	Returns to Plant 1
	50	Returns to Plant 3
	800	

W: Budapest		1000
	900	Shop H
	100	Returns to Plant 3
	1000	

W: Berlin		5000
	4000	Shop E
	700	INTERNET
	300	Returns to Plant 3
	5000	

DATA – level III:

Shop A			200
	150	EUROPE	
	50	Returns to Paris	
	200		
○			
Shop B			100
	90	EUROPE	
	10	Returns to Paris	
	100		
0-0			
Shop C			500
	480	EUROPE	
	20	Returns to Paris	
	500		
⊙			
Shop D			500
	400	EUROPE	
	100	Returns to London	
•	500		

Char E			4000	
Shop E			1800	
		EUROPE		
		Returns to London	n	
•	1800			
Shop F			200	
	200	EUROPE		
	0	Returns to Warsa	aw	
•	200			
				THE PARTY
Shop G			500	
	420	EUROPE		
	80	Returns to Warsa	aw	
<u> </u>	500			
Shop H			900	
	800	CHINA		
	100	Returns to Berlin		
•	900			
Shop E			4000	
	3900	CHINA		
	100	Returns to Budap	est	
•••	4000	•		



DATA – level INTERNET:

INTERNET			1000
	150	POLAND	
	780	EUROPE	
	50	USA	
	20	ASIA	
	1000		



SOLUTION:

Questions?



dr Marian Krupa