SCIENCE AND ECONOMY

A brief study of the impact produced by HSSIP Spain during its two week stay



CERN – October 10, 2019





PRODUCTION OF A SUPERCONDUCTIVE MAGNET



Steps to follow



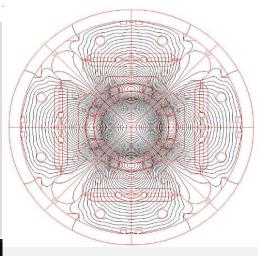
Step 1:

"Cable manufacturing at CERN (Nb-Ti , Nb₃Sn)"

Step 3:

"Magnet construction"





Step 4:

"Magnet Test"







Why should I care?









"Actions have consequences. Consequences result on socio-economic impacts



Socio-Economic Impacts at CERN

1000 Banque Nationale Suisse

CERN

TYPES OF IMPACTS

- Economic impact: Economic outcome produced by an announcement, action or a policy.
- Social Impact: Outcome of an specific action on a community.

Ej. A megacorporation settles on a city in which a part of the inhabitants is hired in order to work for them.





"WTP" vs "VALUE OF TIME"

	<u>Willingness To Pay</u>	<u>Value of Time</u>
Definition	Desire of paying for a good/service of a person.	Value of time used by a person to make an action.
Data	Population's opinion	Data compilation
Methodology	Survey	Data analyse stablishing a monetarian value for the time.



OUR ECONOMIC IMPACT

Methodology: Survey \rightarrow Data analyse \rightarrow Conclusions

CERN arrival (Aeroplane + Transport to Madrid) = 5675.28 + 4634.08 (round trip) = 10,309.36 CHF

- \Box Hotel = (77*11 + 58*4)*14 = 15,106 CHF
- □ Food = (12*2 + 36*12)*26 = 11,856 CHF
- □ Transport = 35*26 = 910 CHF

Leisure (Souvenirs, Extras, Fondue, Cocktail) = 3,515 + 1,300 + 1,739 + 900 = 7,454 CHF

□ TOTAL = <u>45,635.36</u> CHF



OUR SOCIAL IMPACT

Methodology: Data analyse \rightarrow Conclusions

Visits' Value of Time	Instagram's Value of Time
6 global visits (SC, SM18, Data Center, ALICE, S'cool Lab, ISOLDE)	Javi ClaudioDaniNataliaElsaTeresaRocioStarfdLuisBeaNerea2 sem.0040020100012037244194343162
 > Time Spent = 490' = 8h + 10' > €/min = 0.13 > N° visitors = 26 	 Media min/persona = 10 min. > €/min = 0.13
→ VALUE OF TIME = 26*490*0.13 = 1,656.2 € = 1,807.58 CHF	→ VALUE OF TIME = 162*10*0.13 = 210.6 € = 229.85 CHF * <u>Pedro Duque's Tweet</u>



"CERN... a finite research infrastructure, an infinite infrastructure of social and economic benefits"



Thank you for your attention!





