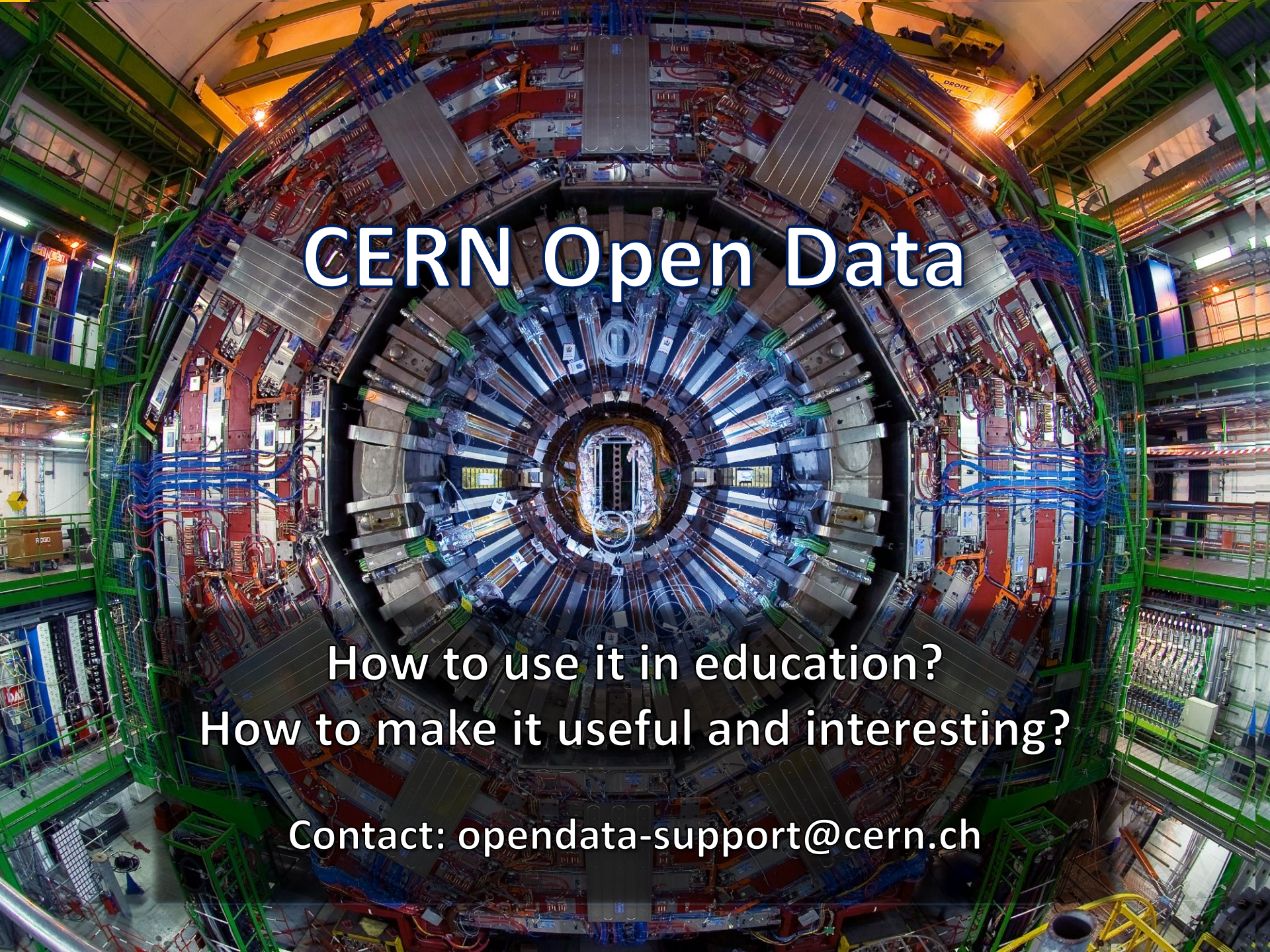
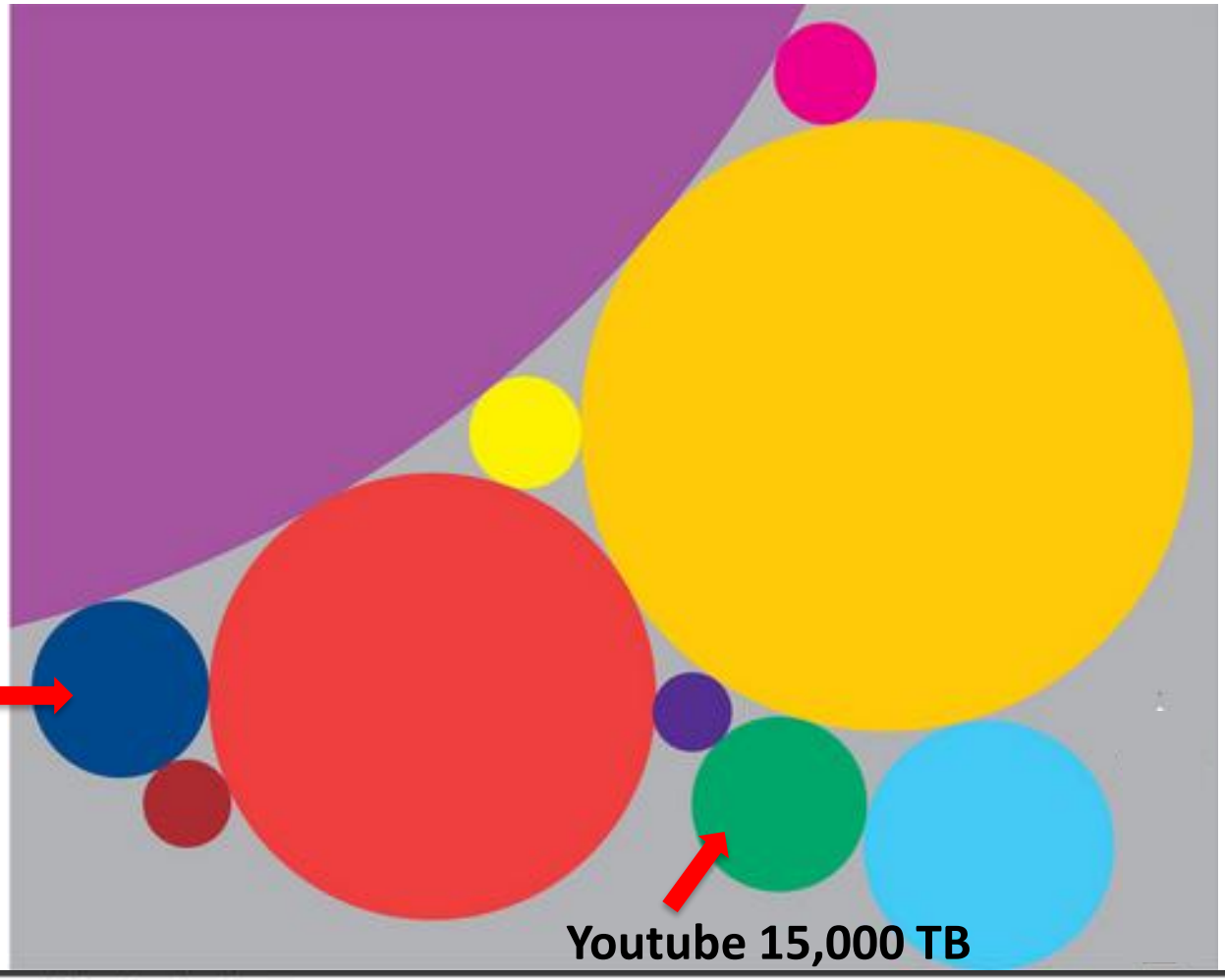


CERN Open Data

How to use it in education?
How to make it useful and interesting?

Contact: opendata-support@cern.ch



Size of data sets in terabytes

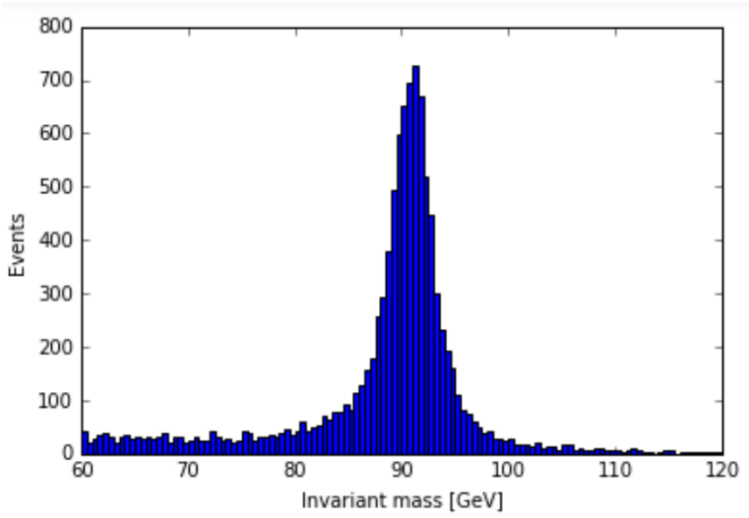
Business email sent per year	2,986,100	National Climactic Data Center database	6,144
Content uploaded to Facebook each year	182,500	Library of Congress' digital collection	5,120
Google's search index	97,656	US Census Bureau data	3,789
Kaiser Permanente's digital health records	30,720	Nasdaq stock market database	3,072
Large Hadron Collider's annual data output	15,360	Tweets sent in 2012	19
Videos uploaded to YouTube per year	15,000	Contents of every print issue of WIRED	1.26

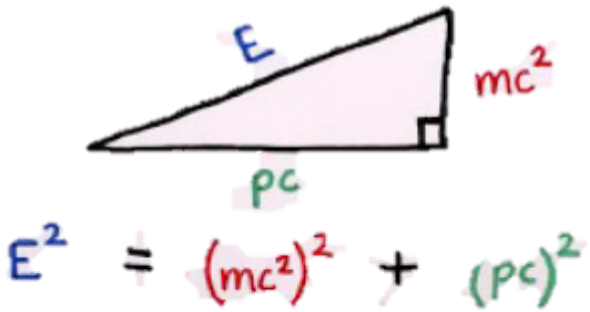
Modified from https://www.wired.com/2013/04/bigdata/

Objectives

Create, work on, develop…

- Ready-to-roll exercises
  - Based on curriculum
- Project work
- Material for other teachers
  - Videos, tutorials
  - Background theory
- User Interface
- …something creative?





opendata CERN

You have the chance to

- Create activities around data analysis
- Set basics of programming at high school level
- Use interactive teaching tools
- Rediscover Nobel-Prize winning discoveries
- Search for new physics using CERN OpenData

python powered

print("Hello, world!")

jupyter

opendata CERN

“It has opened my eyes to new teaching methods”

Welcome!