

BIG DIVE 6

JUNE 19th / JULY 21st, 2017

Torino, ITALY

WELCOME & KICK-OFF

**CHRISTIAN
RACCA**



@pendolare



dati.piemonte.it



BIG DIVE



**PIEMONTE
VISUAL CONTEST**

BIG DIVE

THE DREAM TEAM

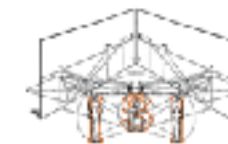
#CODING #ENGINEERING



#CODING

BIG DIVE

#SCIENCE



ISI Foundation

TODO

#UI / DATAVIZ

ORGANIZED BY

**NON PROFIT
CONSORTIUM**

MISSION

IX NORTH-WEST
ITALY

START-UP

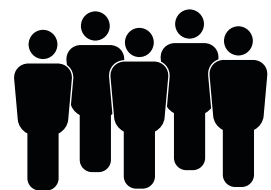
**FUNDED
PROJECTS**

EDUCATION

**CORPORATE
INNOVATION**

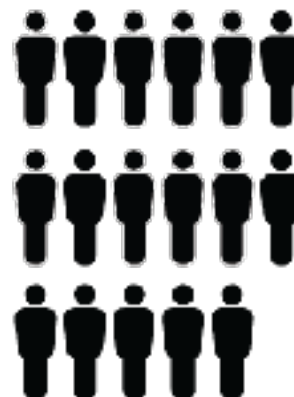
CIVIC TECH

DP
TO FOSTER
INNOVATION
BY LEVERAGING
INFRASTRUCTURE
ASSETS



80+ Members
(15 in 2003)

**PUBLIC & PRIVATE
PARTICIPATION**

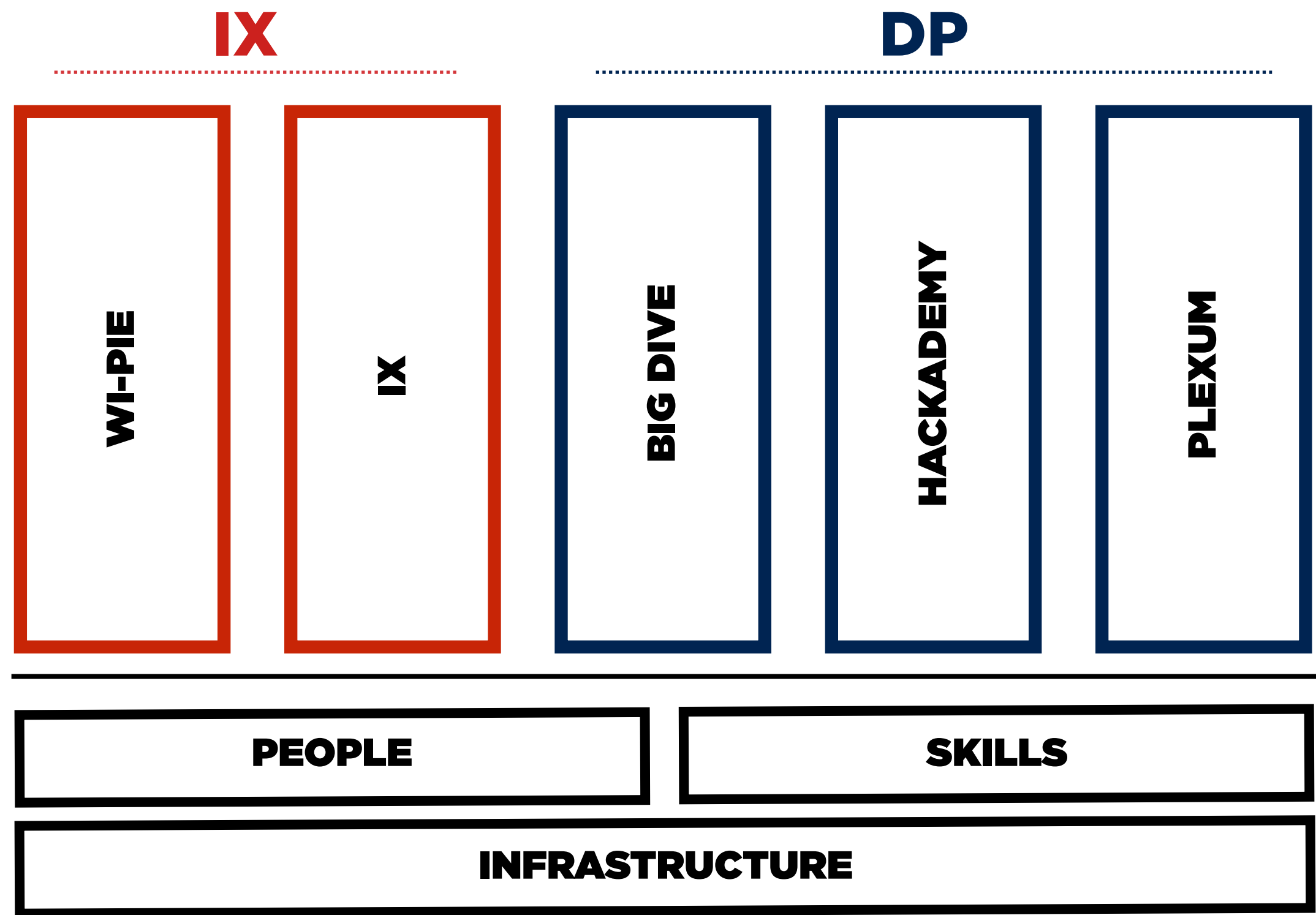


16 employees

7 collaborators

2 directors

TOP-IX ACTIVITY MAP



TOP-IX ACTIVITY **MAP**

DP

BIG DIVE

/5 open editions

/6th ep. starting today

**/1 tech version for
corporate**

**/1 executive version
for corporate**

/# 1-day workshops

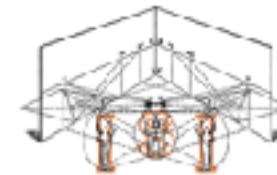
BIG DIVE

HACKADEMY

PLEXUM

IN PARTNERSHIP WITH

The ISI Foundation is a private Foundation conducting research rooted in the area of **Complex Systems Science**, a field that the institute has contributed to shape for more than three decades.



ISI Foundation

IN PARTNERSHIP WITH

TODO is an independent practice established in 2007. The firm currently counts on a multidisciplinary and diverse team, and has built a great international network of design and communication professionals.



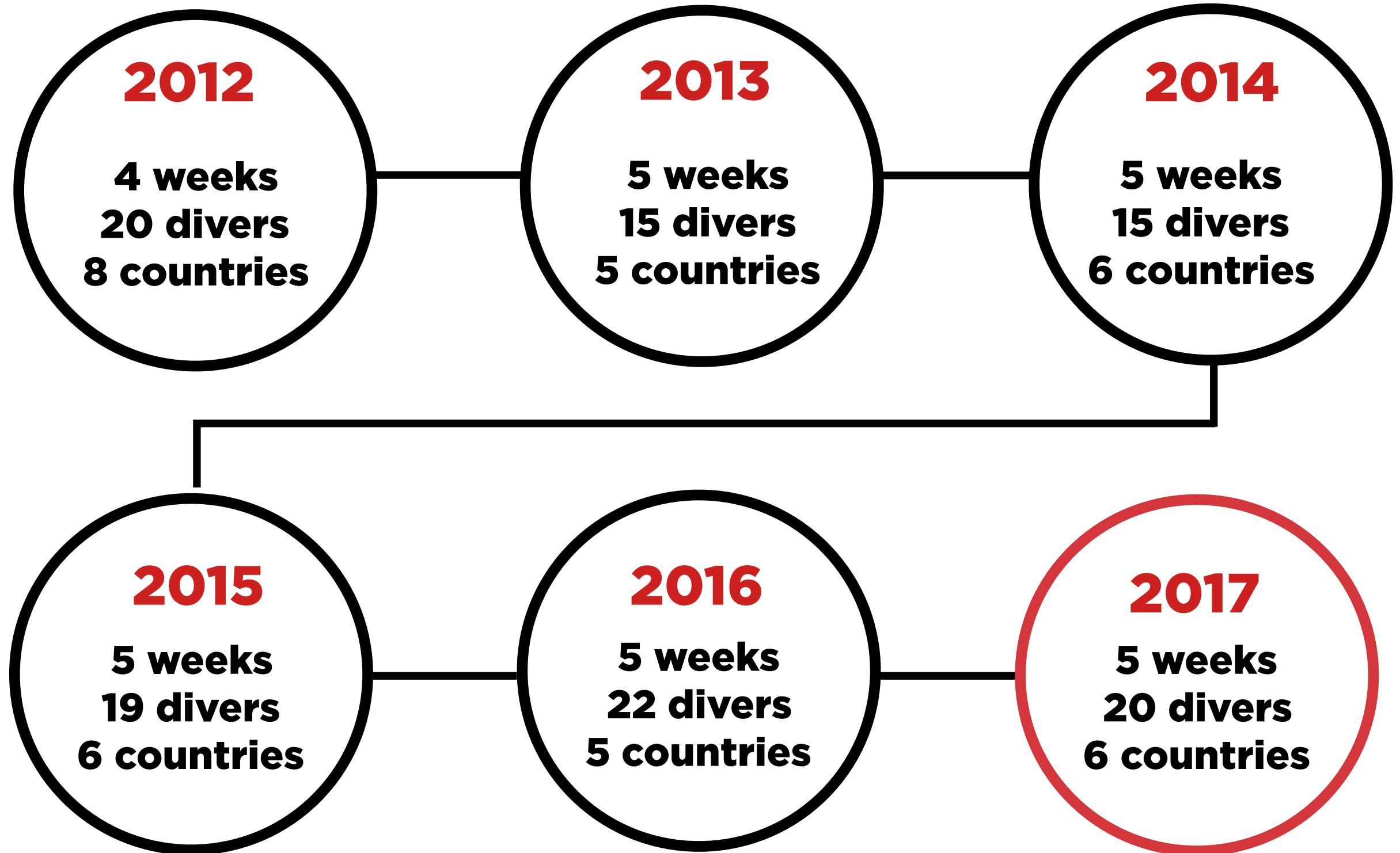
TODO

IN PARTNERSHIP WITH



AXANT is a young and informal firm that deals with the **development of Digital Products in the Web and Mobile fields with Open Source Technologies on Linux Systems**

THE BIG DIVE **HISTORY**



WHAT HAPPEN AFTER...

DIVERS AFTER BIG DIVE



Were employed
as **DATA SCIENTISTS**



THE BIG DIVE **RECIPE**

/ INTER-DISCIPLINARY

/ INTERNATIONAL

/ BORDERLESS

/ HANDS-ON

/ TOP EXPERTS

THE BIG DIVE **RECIPE**

| | |
|-----------------------------------|-----------------------------|
| / INTER-DISCIPLINARY | A MIX OF |
| | DATA SCIENCE |
| / INTERNATIONAL | DATA DRIVEN |
| | DEVELOPMENT |
| / BORDERLESS | DATA |
| | VISUALIZATION |
| / HANDS-ON | + |
| | BIZ and LEGAL |
| / TOP EXPERTS | OVERVIEW |

THE BIG DIVE **RECIPE**

/ INTER-DISCIPLINARY

/ **INTERNATIONAL**

/ BORDERLESS

/ HANDS-ON

/ TOP EXPERTS

THE COURSE IS OPEN
TO PEOPLE FROM
ALL AROUND THE
WORLD.

LESSONS ARE
TAUGHT IN **ENGLISH.**

THE BIG DIVE **RECIPE**

/ INTER-DISCIPLINARY

/ INTERNATIONAL

/ **BORDERLESS**

/ HANDS-ON

/ TOP EXPERTS

**WE TRUST IN THE
POWER OF
CONTAMINATION
AND IN THE **MIX OF
SKILLS,**
BACKGROUNDS AND
PROFILES...**

THE BIG DIVE **RECIPE**

/ INTER-DISCIPLINARY

/ INTERNATIONAL

/ BORDERLESS

/ **HANDS-ON**

/ TOP EXPERTS

**THEORY IS THE
BASIS, BUT IN BIG
DIVE WE MAINLY
GIVE SPACE TO
PRACTICE AND
LEARNING BY DOING**

THE BIG DIVE **RECIPE**

/ INTER-DISCIPLINARY

/ INTERNATIONAL

/ BORDERLESS

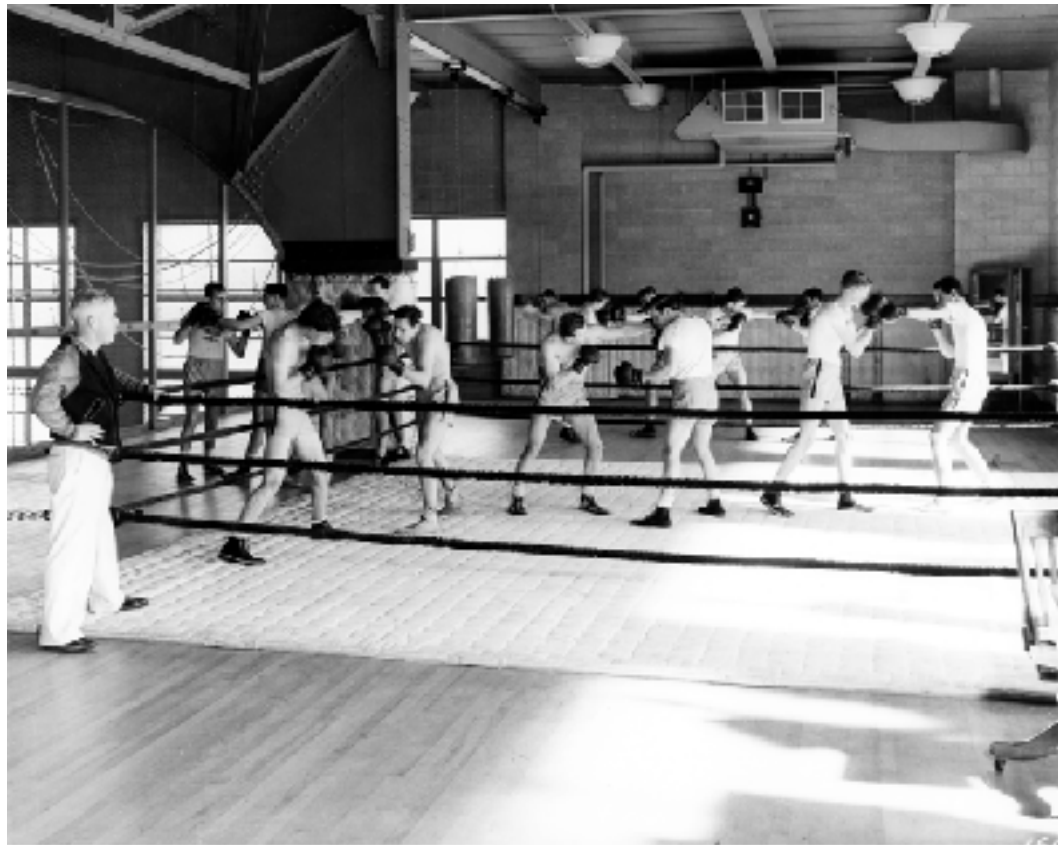
/ HANDS-ON

/ **TOP EXPERTS**

**WE SELECT
TEACHERS AND
GUEST SPEAKERS
AMONG TOP
EXPERTS... IN ORDER
TO PROVIDE **STATE-
OF-THE-ART
CONTRIBUTIONS****

THE BIG DIVE **CREDO**

**WE DON'T NEED A
UNIVERSITY**



**WE NEED
STREET FIGHTING**



THE BIG DIVE **VENUE**

ACCELERATOR OF KNOWLEDGE AND ENTREPRENEURSHIP FOR SOCIAL IMPACT



TORINO - ITALY

BIG DIVE 6

JUNE 19th / JULY 21st, 2017

Torino, ITALY

THE PROGRAM

A **5-WEEK** JOURNEY

1st WEEK = DATA VIZ + OPTIONAL CODING TUTORIAL

2nd WEEK = STATISTICS + SCIENTIFIC PYTHON

3rd WEEK = MACHINE LEARNING

4th WEEK = SPARK FRAMEWORK + NETWORK SCIENCE

5th WEEK = HARD WORK ON FINAL DATA PROJECT



LESSONS FROM 09:30am to 04:30pm Mon-Fri

THE **FIRST** WEEK



FABIO
FRANCHINO
TODO

A 4-DAY-WORKSHOP:
from zero to your first
data visualization with
D3.js

THE **FIRST** WEEK



ALEX
COMUNIAN



(OPTIONAL CONTENT)
PYTHON FOR DUMMIES

THE **FIRST** WEEK

GUEST LECTURES



ENRICO FERRO



**MAARTEN
LAMBRECHTS**

THE **SECOND** WEEK

Scientific Python (Pandas / Dask) + Mongo DB



ALEX
COMUNIAN



ALESSANDRO
MOLINA



THE **SECOND** WEEK

Statistics and Data Analysis



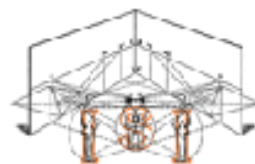
PAOLO
BAJARDI



ENRICO
UBALDI



ANDRÉ
PANISSON



ISI Foundation

THE **SECOND** WEEK

GUEST LECTURES



PIERO
MOLINO



ALAN
PEROTTI



THE **THIRD** WEEK

Machine Learning



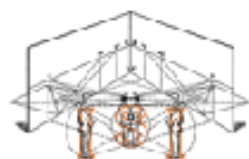
CIRO
CATTUTO



ENRICO
UBALDI



ANDRÉ
PANISSON



ISI Foundation

THE **THIRD** WEEK

Mongo DB



ALEX
COMUNIAN



PURIA
NAFISI



THE **THIRD** WEEK

GUEST LECTURES



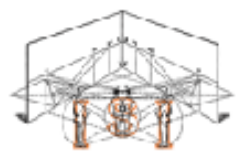
**DATA QUALITY
WORKSHOP
WITH
ANTONIO VETRÒ &
ALESSIO MELANDRI
(SYNAPTA)**

THE **FOURTH** WEEK

Network Science



**LAETITIA
GAUVIN**



ISI Foundation

THE **FOURTH** WEEK

GUEST LECTURES

SPARK



**DEEP
LEARNING**

**FRANCESCO
BONCHI**



NLP



THE **FIFTH** WEEK

GUEST LECTURE



DAVIDE
DEL VECCHIO



FINAL PROJECT



Eat



Sleep



Code

FINAL **PROJECT**



JULY 21st

PUBLIC **PRESENTATION OF THE
PROJECT IN FRONT OF
DATA PROVIDERS AND
SPECIAL GUESTS**

BIG DIVE 6

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Torino, ITALY

THE STAKEHOLDERS

OUR DATA SPONSORS



#WEBANALYTICS



#MONEY TRANSACTIONS



**#LARGE-SCALE
RETAIL
CHANNELS**

ALL THE NETWORK

A PROJECT BY



IN COLLABORATION WITH



DATA PROVIDERS



TECHNICAL PARTNERS



WITH A PATRONAGE OF



MEDIA PARTNERS



BIG DIVE 6

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THE X FACTOR

THE BIG DIVE X FACTOR



- / WHO ARE YOU ?**
- / YOUR GOALS ?**
- / YOUR “SUPER”-POWERS ?**

BIG DIVE 6

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Torino, ITALY

FINAL TIPS

SOME PRACTICAL INFO

/ OPENING HOURS: 9:00 AM - 6:30 PM

/ WI-FI CONNECTION (Pwd: `wifi4divers`)

/ COFFEE MACHINE + WATER (FREE)

/ INTERNAL COMMUNICATION (SLACK)

/ GITHUB REPOSITORY

/ KITCHEN AVAILABLE

FINAL RECOMMENDATIONS

- / BIG DIVE CONTINUES AFTER LESSONS**
- / PLEASE RESPECT TIMING AND SHARED SPACES (SEND A MAIL IF YOU CAN'T ATTEND A LESSON)**
- / DO NOT HESITATE TO ASK IF YOU HAVE PROBLEMS (TOP-IX DOOR IS ALWAYS OPEN)**
- / TRY TO HAVE FUN!**

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QUESTIONS ?

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THANKS!