APPLIED DATA ANALYSIS
DATASPORT

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

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APPLIED DATA ANALYSIS

HTTPS://ANTITOINE.GITHUB.IO/ADAEPFL-PROJECT/

IN-DEPTH ANALYSIS OF ALL EVENTS, FROM 1999 TO 2016

- ▶ **Comparison** of multiple editions of Lausanne Marathon
- ▶ Visualization of some **trends and tendencies**
- ▶ **Statistical study** on the evolution of some variables through the years

IS LAUSANNE MARATHON GETTING FAMOUS?

Distribution of runners over the years for Lausanne Marathon
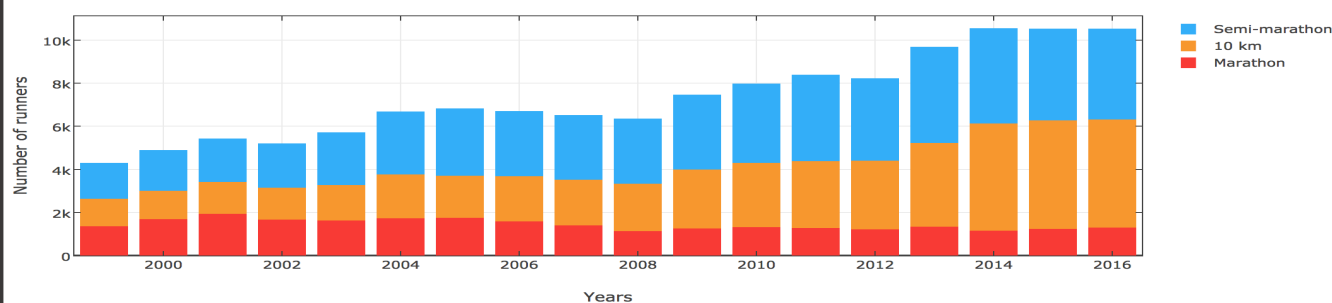
- • The **number of runners of the marathon decreases** over the years. This is due to the new organisation of the Lausanne Marathon instituted in 2009.

- • However, *10-km running attracts more and more participants* each year!

ARE RUNNERS GETTING OLDER OR YOUNGER?
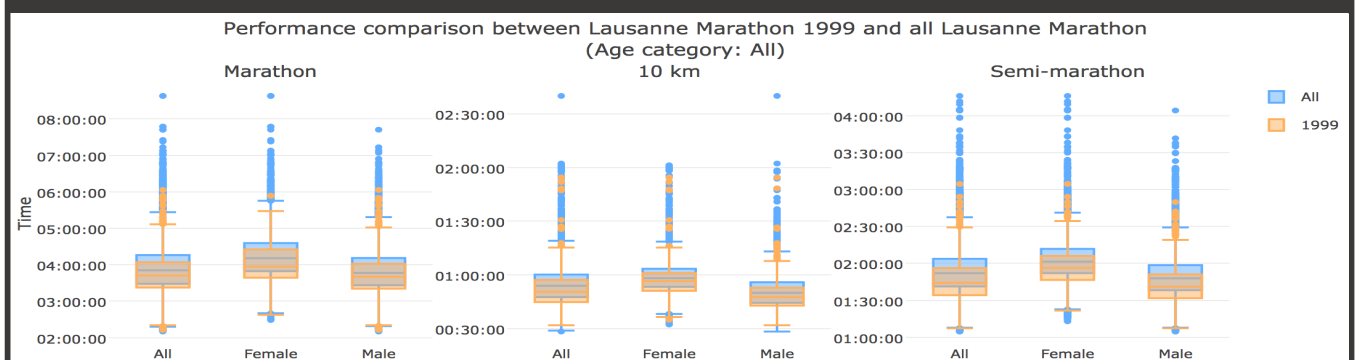

Evolution of median age over the years
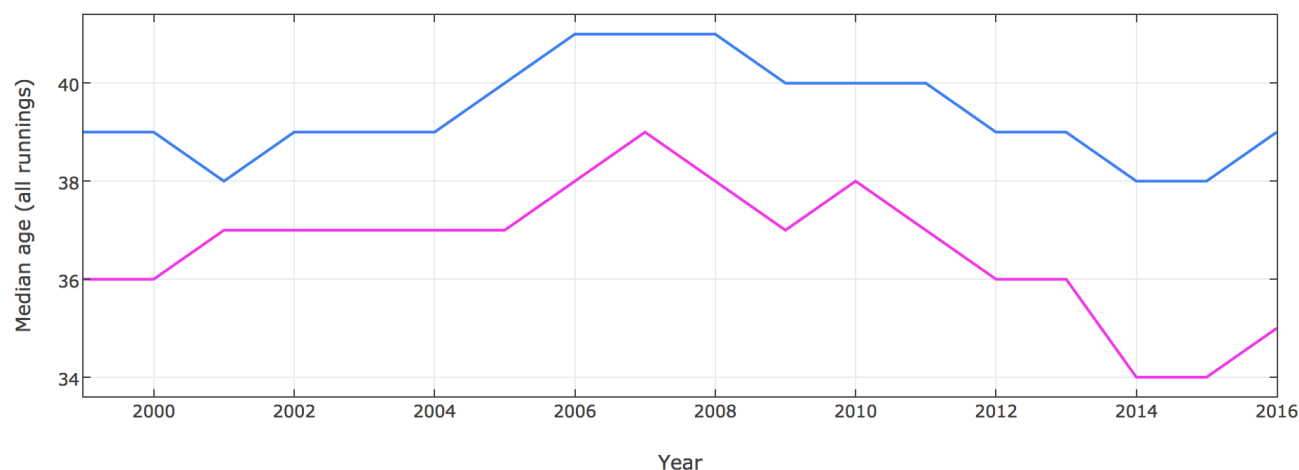
The evolution of the median age is not very relevant, even if *between 2007 and 2015 there is kind of linear regression*.

Also, we observe that *in 2016 the median age seems to increase again* and thus to break previous downwards tendency.

WELL, THIS TIME, IT WAS BETTER BEFORE…

Performance comparison between Lausanne Marathon 1999 and all Lausanne Marathon
(Age category: All)

The overall time performance deteriorates over the years for all races! What a shame…

EVOLUTION OF MOST-REPRESENTED TEAMS

Evolution of teams performance over the years
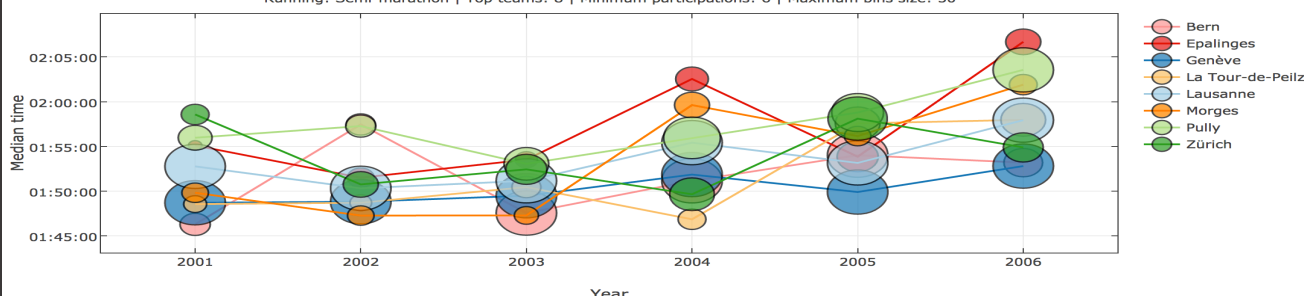
Performance of big teams *becomes worse* when the years go by.

Regarding smaller teams, *disparities* in the overall performance *are more visible* due to smaller number of runners.

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