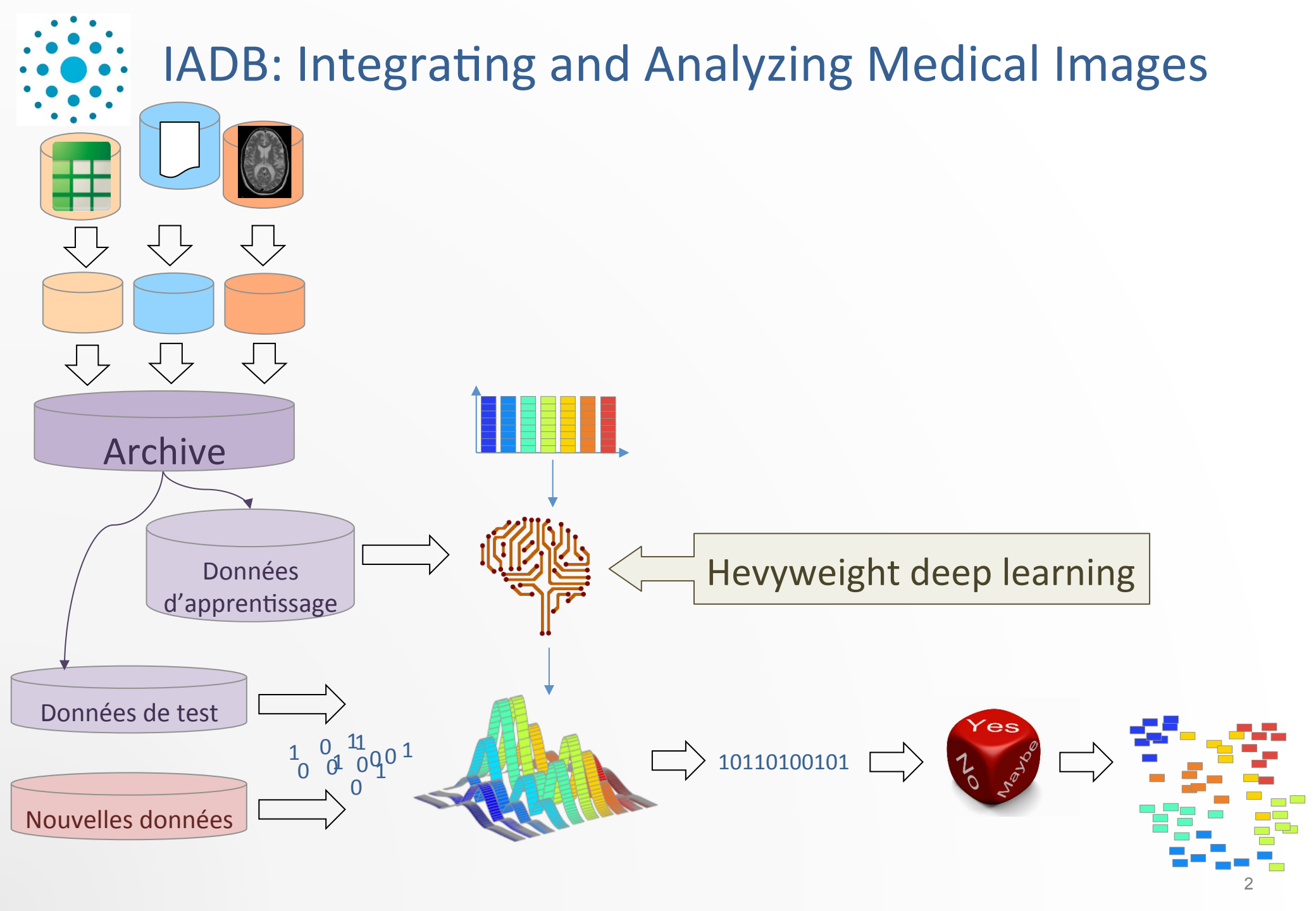
# HELP

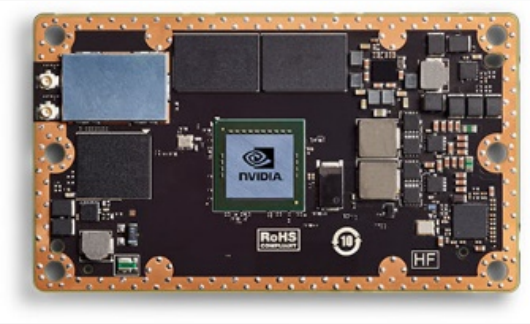
## Hardworking Energy-Efficient Low Power Platform

**BCL, CHUN, I3S, Inria CRISAM, MSI**

# IADB: Integrating and Analyzing Medical Images



# Dedicated computing platform




x 24

## NVidia Jetson TX2

- NVidia Pascal GPU, 256 cores
  - CUDA capability 6.2
  - ~ 1 TFLOPS (peak)
- ARM A57 64-bits quad-core CPU
- 8 GB memory
- 32 GB storage
- Gigabit Ethernet and Wifi

## Jetson TX2 Array

- 6,144 cores (~ 24 TFLOPS, peak)
- 4 x 64-bits ARM A57 CPU
- Internal 24x Gigabit Ethernet switch
- 2 x 10 Gb + 2 x 1 Gb Ethernet links
- 3 TB SSD storage
- Redundant power supply (2 x 650 W)

# Expected impact

- Compute on sensitive data inside the accredited medical data repository
  - CHU Nice
  - Medical Data Center
- Parallelize neural network optimization / execution algorithms
- Reduce learning algorithms energy footprint