

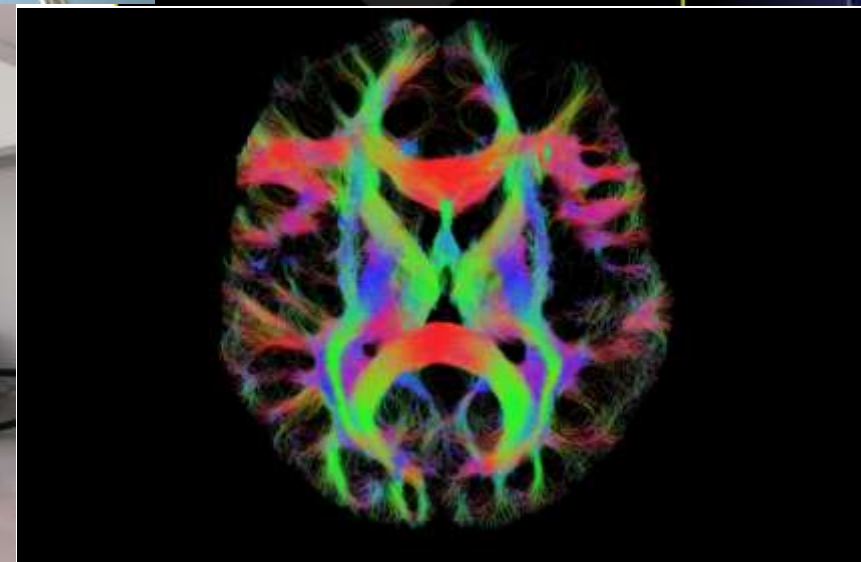
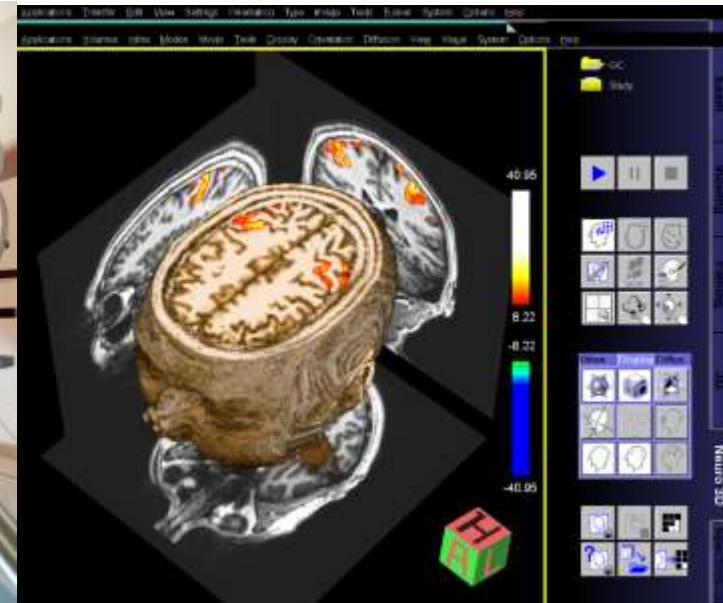
DEALING WITH THE DATA DELUGE

A black and white photograph of a hand, palm up, holding two capsules: one red and one blue. The hand is adorned with a metal watch on the wrist and several rings on the fingers. The background is dark and out of focus.

IT'S NOT THIS SIMPLE

(MY APPOLOGIES TO MATRIX FANS)

Centre for Advanced Imaging



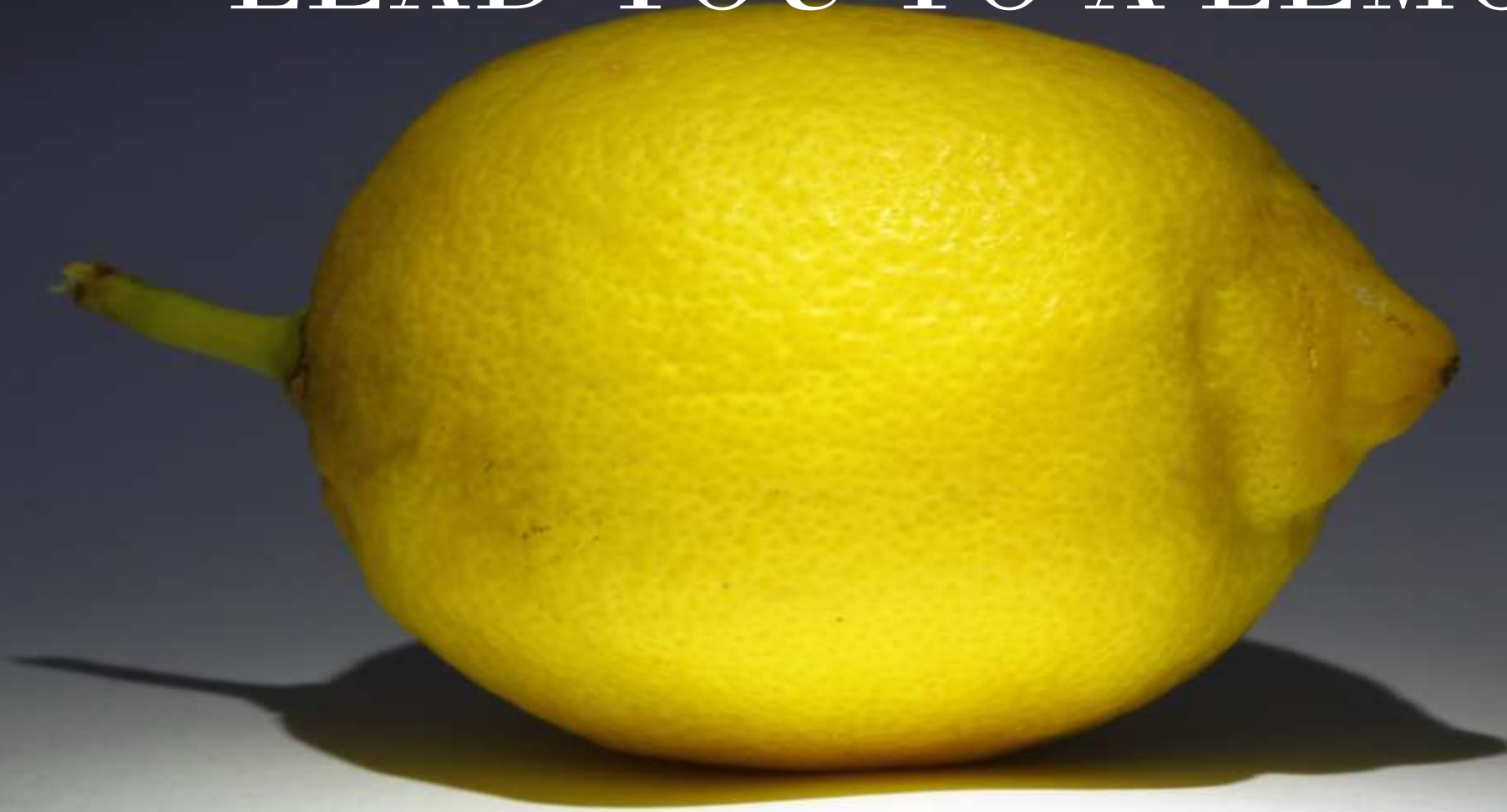
IT CAN FEEL A BIT
LIKE THIS



WE ALL WANT A
SILVER BULLET.....




BUT THE QUEST WILL
LEAD YOU TO A LEMON



A wooden toolbox, constructed from light-colored plywood, is shown from a top-down perspective. The toolbox is open, revealing a collection of tools neatly organized in slots. From left to right, the tools include a hammer, a pair of pliers, a blue-handled screwdriver, a silver adjustable wrench, a pair of blue-handled pliers, a black-handled screwdriver, a yellow-handled screwdriver, a black-handled screwdriver, and a silver level. A metal square is also visible in the background. The toolbox is placed on a dark wooden surface.

YOU NEED A TOOLBOX

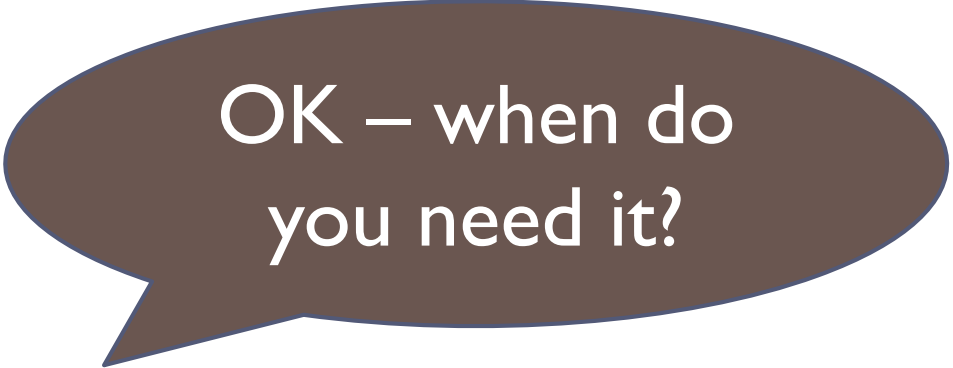
THE CHALLENGE ...



I'll need some
storage soon



Oh – next week
will do

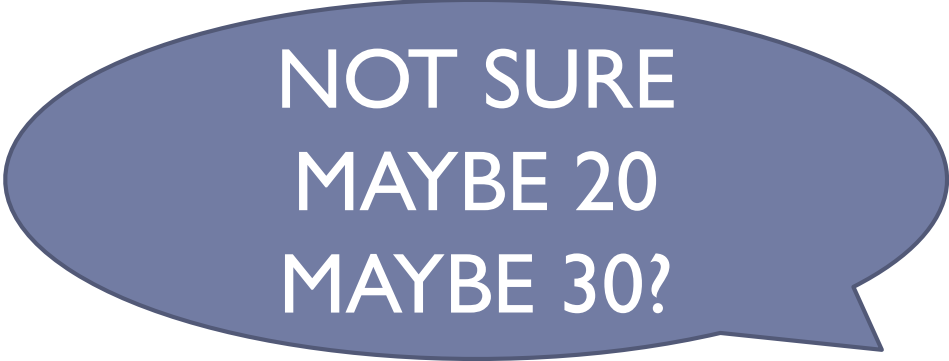


OK – when do
you need it?

THE REALISATION...



WELL... ABOUT
A TB PER
EXPERIMENT



NOT SURE
MAYBE 20
MAYBE 30?



Mmm, HOW
MUCH DO YOU
NEED?



HOW MANY
EXPERIMENTS?

THE REALISATION INVERSE

A dark brown speech bubble with a blue outline, pointing towards the bottom left.

HOW ARE YOU
GOING TO PAY
FOR IT?

A blue speech bubble with a blue outline, pointing towards the bottom right.

OH ...

Scope

- What we built
- Backup / DR
- Compromises
- Data Curation
- The Human element

A large, stepped pyramid under construction, made of light-colored stone or brick. The pyramid has several distinct horizontal layers. At the base, there is a complex network of wooden scaffolding. The sky is blue with some light clouds. The text is overlaid on the pyramid in a bold, black, sans-serif font.

External

RCC

NIF Cluster

Xeon

Workstations

i7 Desktops with 32Gb RAM



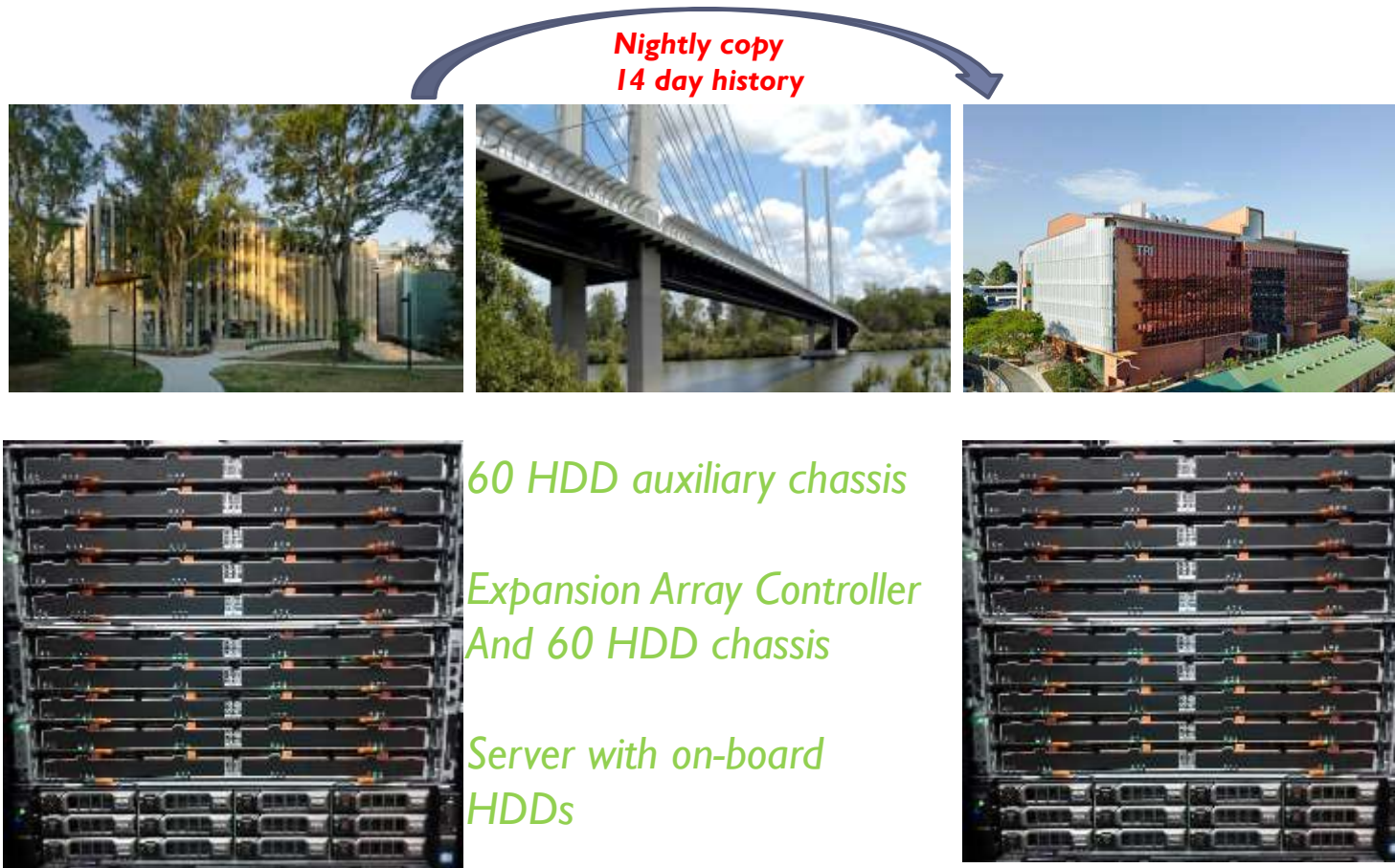
MY COMPUTER DOESN'T
WORK! THE HARD
DRIVE CRASHED!
WHAT DO I DO?!

DID YOU
BACK UP?

WHY? IS IT
GONNA BLOW?!

STENFELD
©96

CAI Primary Data Storage Infrastructure



cai-dumu
(means “to keep”)

cai-killara
(means “always there”)

COMPROMISE





Australian Government

National Health and Medical Research Council

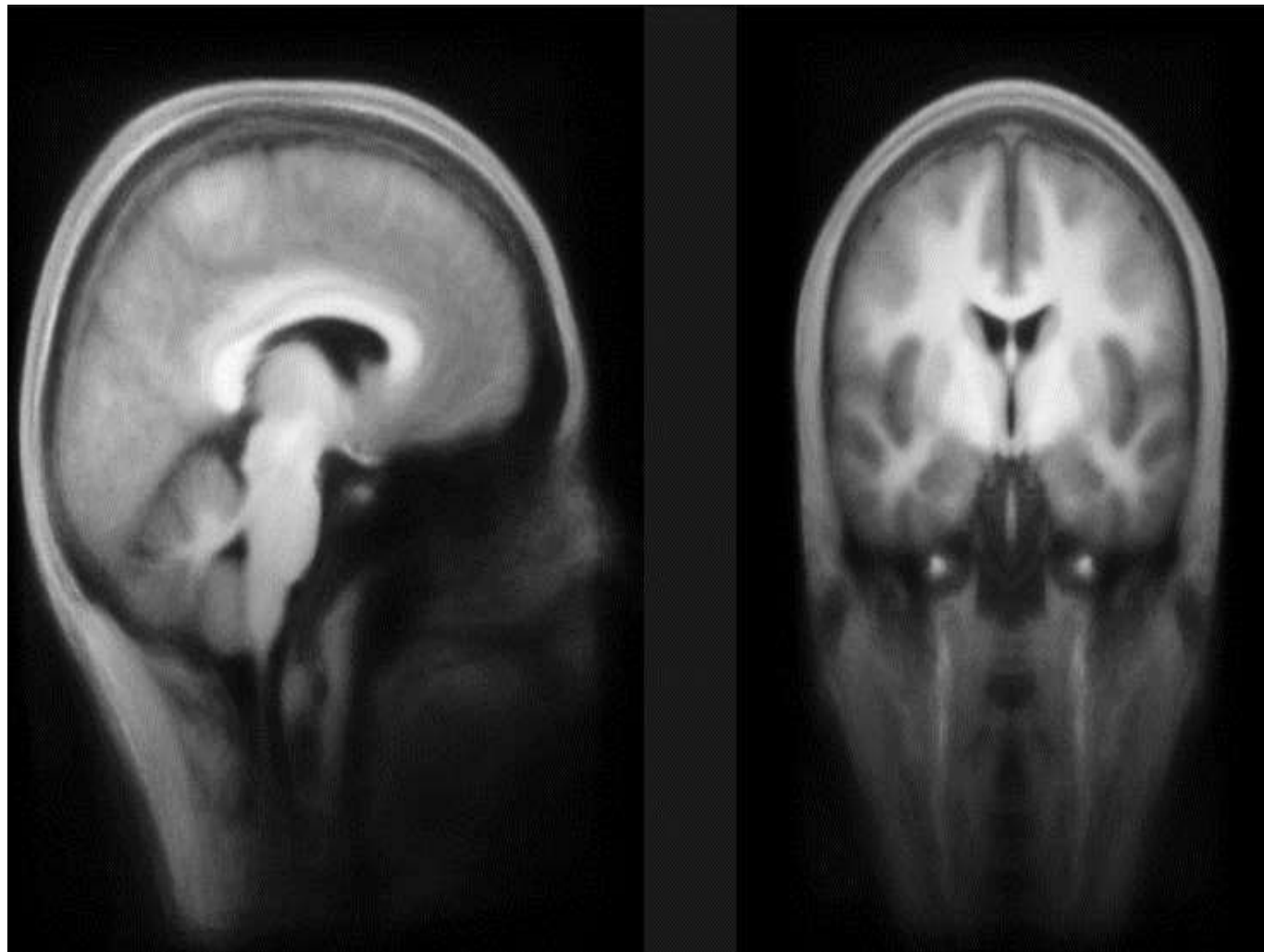
Australian Research Council

Universities Australia
www.universitiesaustralia.edu.au

AUSTRALIAN CODE FOR THE RESPONSIBLE CONDUCT OF RESEARCH



A Population Atlas – Averaging Video



Janke, A.L., Ullmann, J.F.P., 2015. Robust methods to create ex vivo minimum deformation atlases for brain mapping. *Methods, Spatial mapping of multi-modal data in neuroscience* 73, 18–26.
doi:10.1016/j.ymeth.2015.01.005



YOUR TOOLBOX MAY
BE DIFFERENT TO
MINE

YOUR SOLUTION MUST BE
DIFFERENT TO MINE

