

Applied Innovation Lab

- What is innovation?
- Innovation Lab activities
- Call out for involvement



How would you describe innovation?



what are examples of innovation?

Nespresso

Mcguyver

Fast trains

All modern technology

Novel Analysis Techniques

Hot water bottles

New phone

smart phones

Vaccine for Covid-19

what are examples of innovation?

SABRE

SABRE

The wheel

Cygnus

Video conferencing

internet

Optomechanics for dark matter searches

Solving problems

Berocca

what are examples of innovation?

SABRE

Mac

Finding a new solution to existing problem

Dark Matter

Using sheep to keep grass down around solar research farms

Zoom

Zoom

Sliced bread

Sliced bread

what are examples of innovation?

Sliced bread

coconut jelly

New stories, e.g. books

Synergy

Smart TV, Phones

Canning

Lightbulb/lightbulb moments

ANAIS

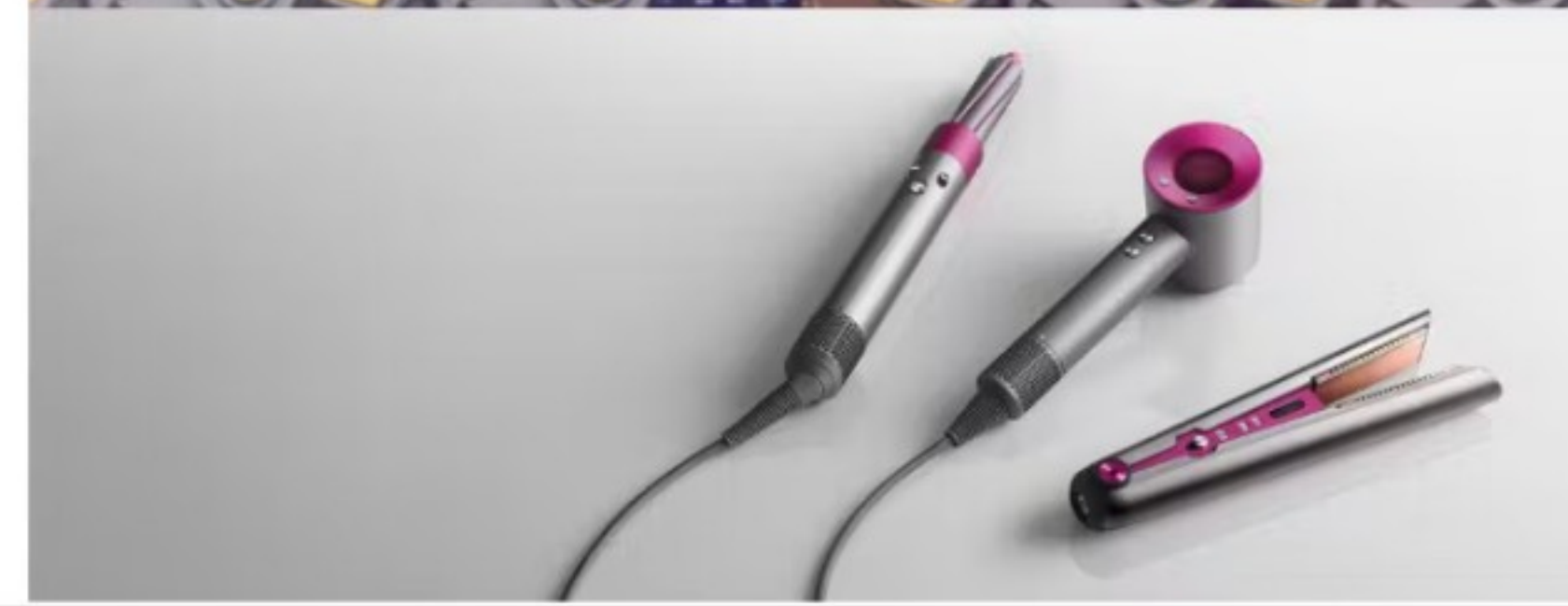
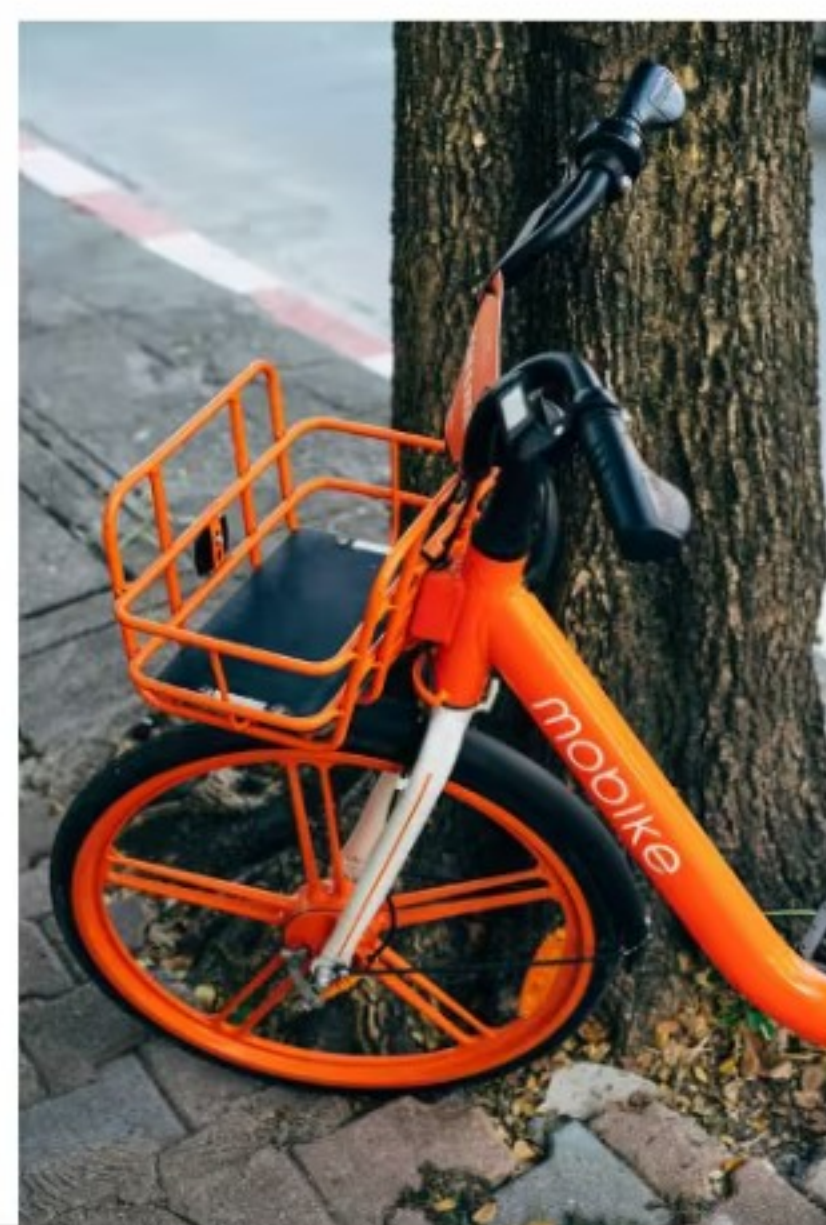
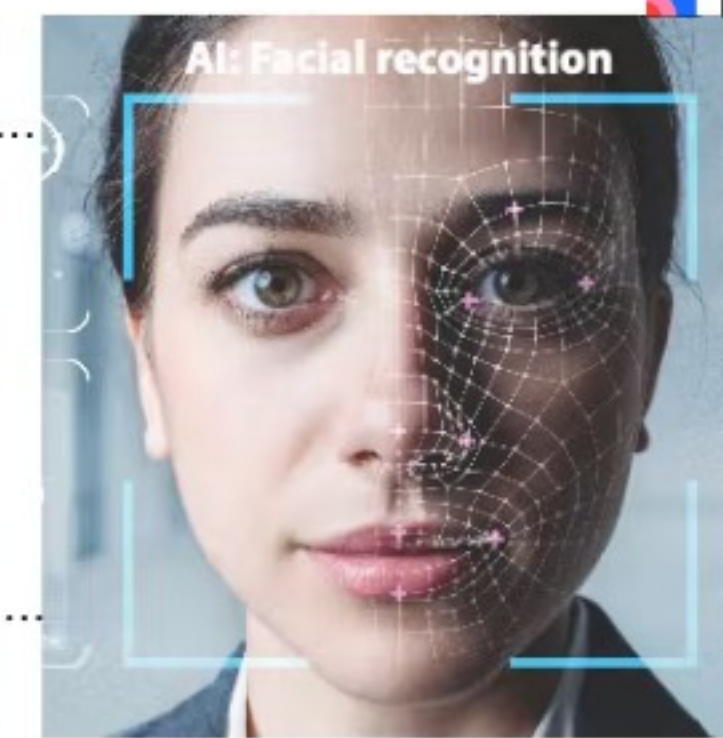
Screws

what are examples of innovation?

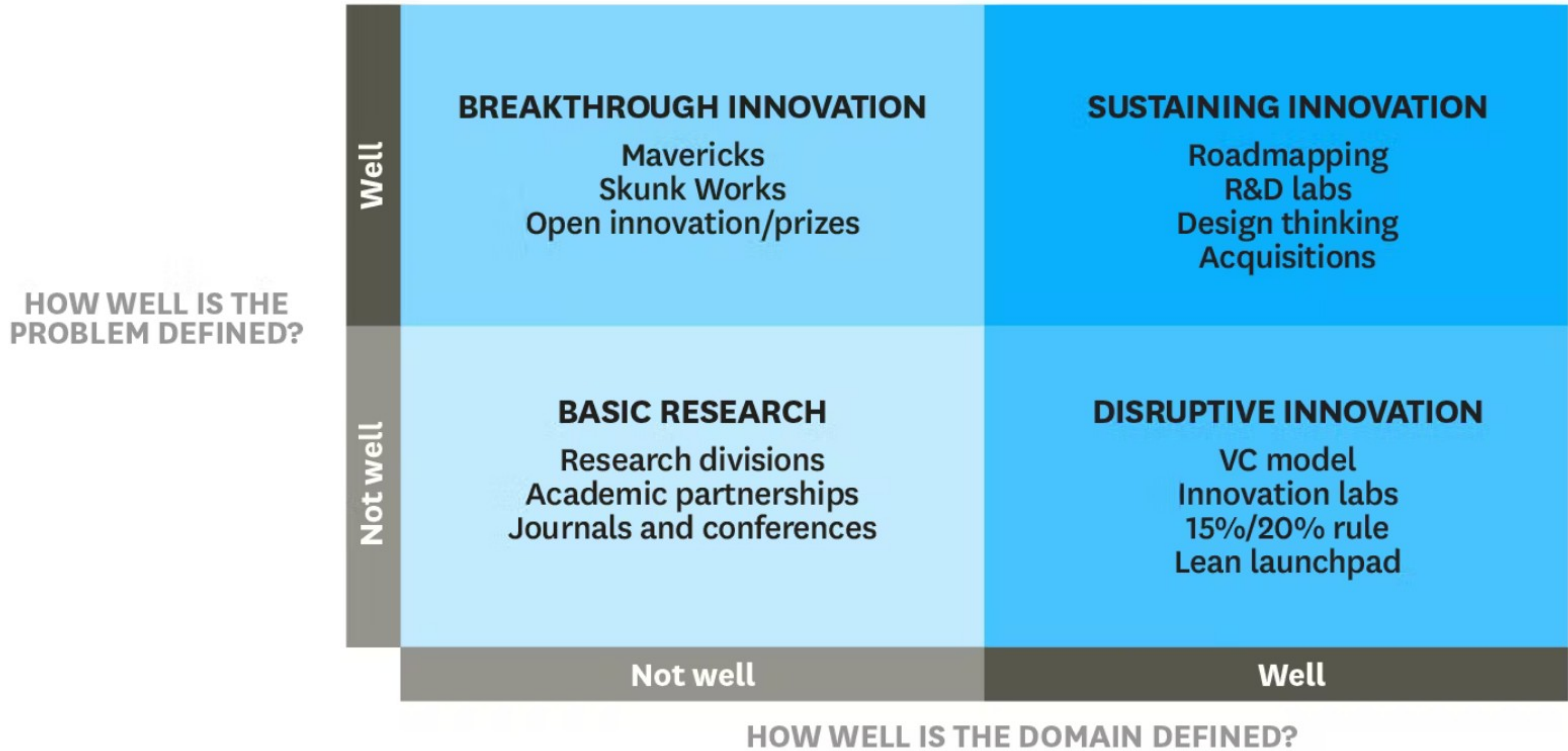
DRIFT

Organ

sabre



4 Types of Innovation



SOURCE GREG SATELL

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INNOVATION: the introduction of new things, ideas or ways of doing something

- *Technological innovations designed to save energy*
- *Too strict a regulatory system will stifle innovation.*
- *Industries where constant product innovation is a criterion for survival*
-
- source: Oxford learners dictionary



Any example/s of when you have been innovative or seen others innovate (professionally)

Seeing people fix broken equipment in the lab with duct tape and hope

Debugging code

Automation of complicated calibration tasks

qdm road trip

going to page 2 of google search

SABRE

I come up with new ways to break computers (I claim it's code testing)

Rather than doing a whole bunch of integrations I realised I could interpolate between two integrations

Purposely "misusing" telescope to image better

Any example/s of when you have been innovative or seen others innovate (professionally)

Take methods from industry into science

Using catering trolleys to store lab equipment

Stack overflow

Integrating new tools in the workflow

Making a theory specifically to escape all experimental bounds

PYRATE

Measure ultralow concentrations of radiocontaminants

Running a Mathematica notebook inside another Mathematica notebook

iphone

Any example/s of when you have been innovative or seen others innovate (professionally)

Lumirror stencil for sabre

I created the remote shift organization for my experiment

When we got new funding

ORGAN

Machine learning

When having a meeting and we were asked to be innovative

DOOM

Extracting uranium using ionic liquids.

GEANT4

Any example/s of when you have been innovative or seen others innovate (professionally)

using fundamental research technology for applied purposes

I invented a new dance called 'the slurp', it took the nation by storm and I was eventually arrested for inciting a riot when 2000 teens slurped together on the parliament steps

ROOT

Ignoring what the supervisor says