

Getting Ready for R

Switching to an open-source backbone

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- A large blue graphic on the left side of the slide, consisting of a vertical line and two diagonal lines that meet at a point, forming a large right-pointing arrow shape.
1. Introduction
 2. Building Blocks of a Modern Data Science Platform
 3. Embracing life long learning and open source culture

Introduction

Our Goal



Shift towards
a language
agnostic
framework



**New studies
using R as their
core data
science tool**



Begin
by moving
our codebase
to having
a core of R



Be able
to move flexibly
in future to new
technologies
as needed



Making a change



**Talent out
of university
more likely
to know R**



**Open source
languages
offered
opportunities:**

01

**Get latest developments
more rapidly**

02

**Be able to switch between
languages and contexts
more easily**

03

**Collaboration with
external partners**

Getting there

Build an infrastructure
to support working in R



Build a toolbase
to use R effectively

Get our talentbase ready

The Building Blocks of a Modern Data Science Platform



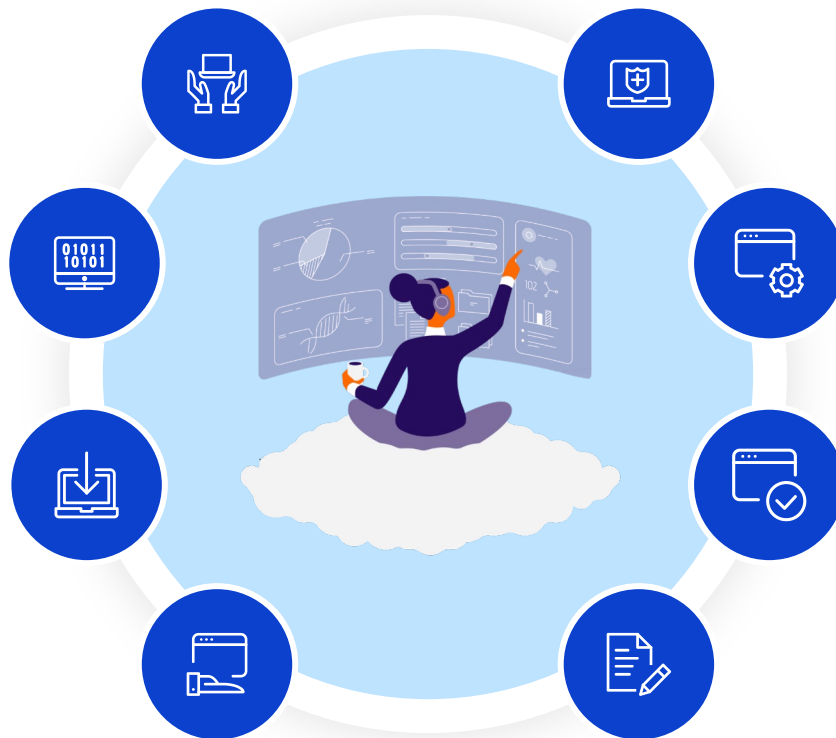
Enter the OCEAN

Language Agnostic
Computing Platform
Built on AWS

Version Control using GitLab

Posit Connect Server

Orchestrate Production Runs
using snakemake

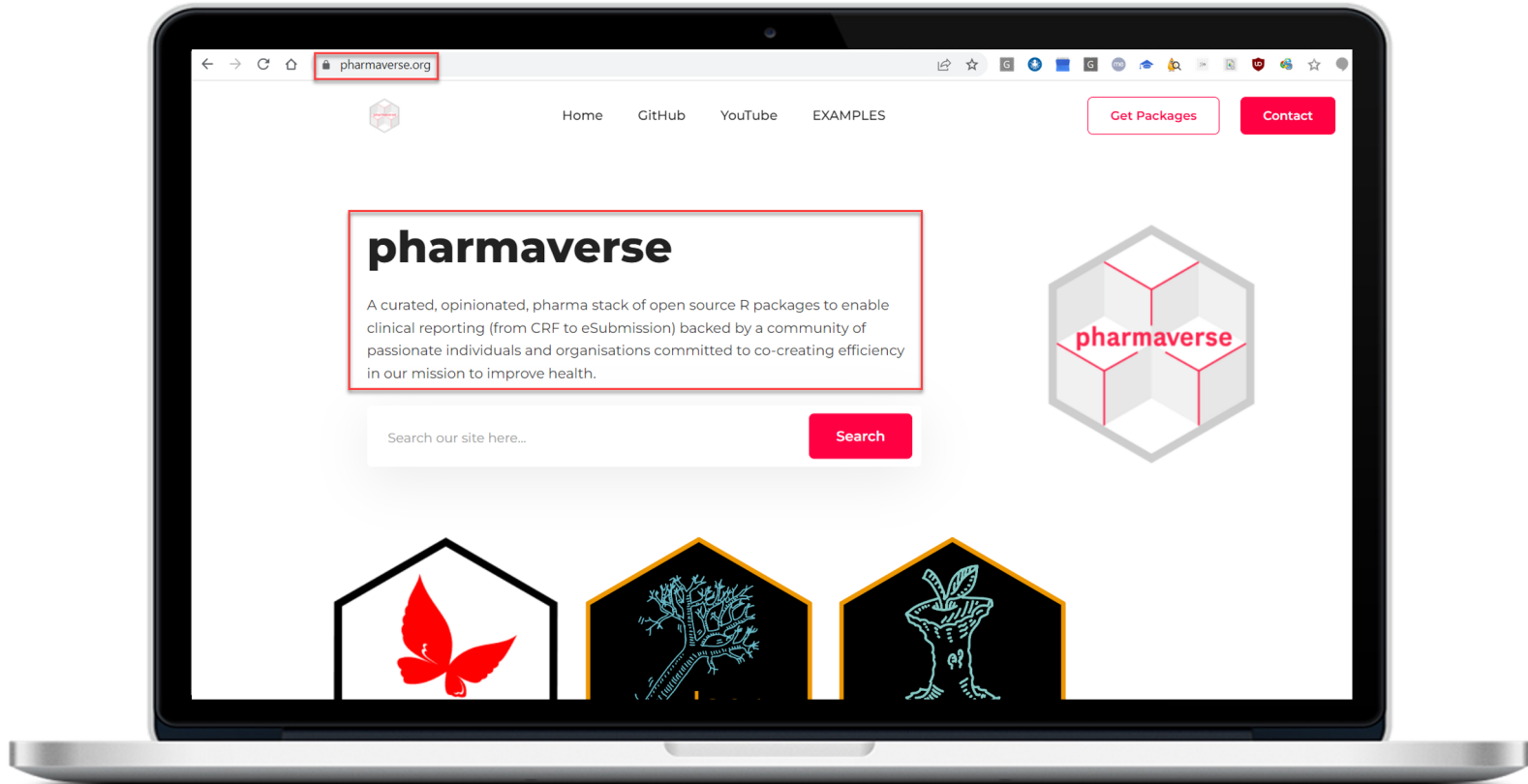


Docker Containers

CDISC Data Stored in S3
Buckets as .parquet files

Validated R
Package Repository

Next-Gen Tools
for Clinical Reporting





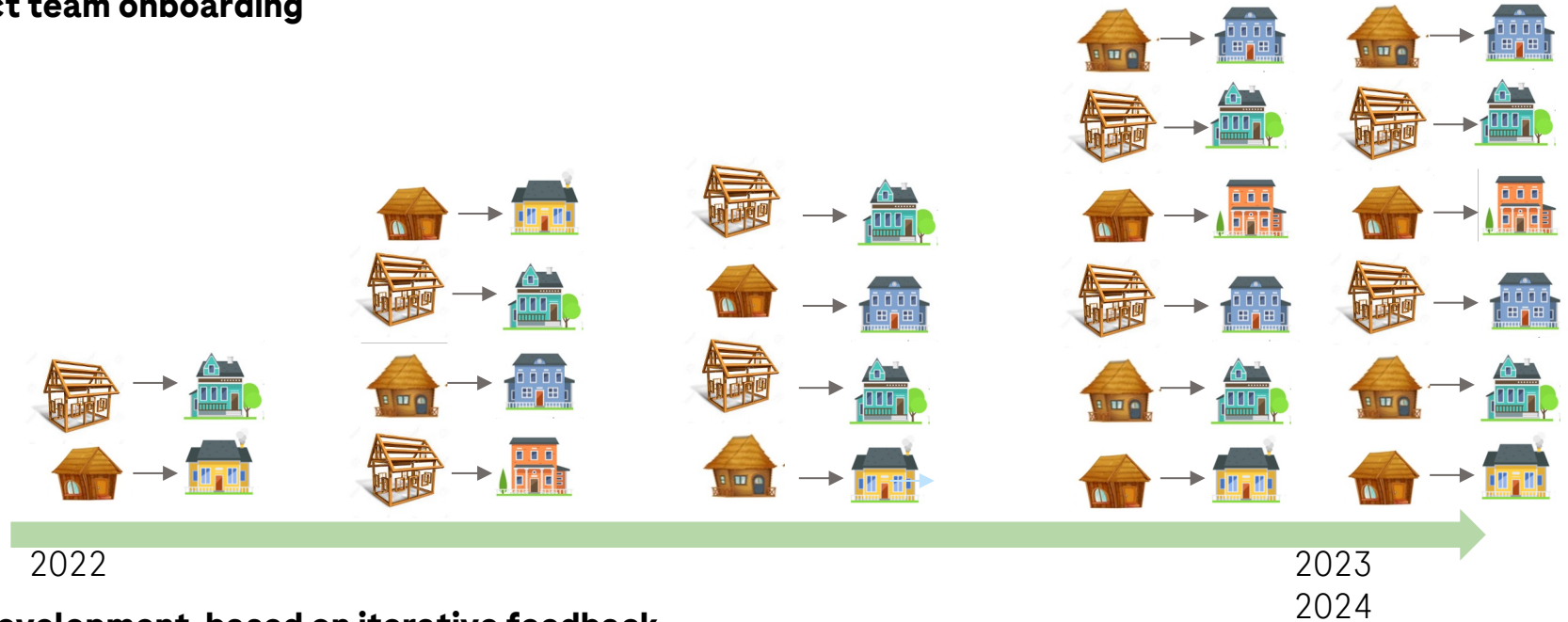
Embracing life long learning and open source culture

Building the Adoption Roadmap



Onboard project team in waves, while keep improving our tools

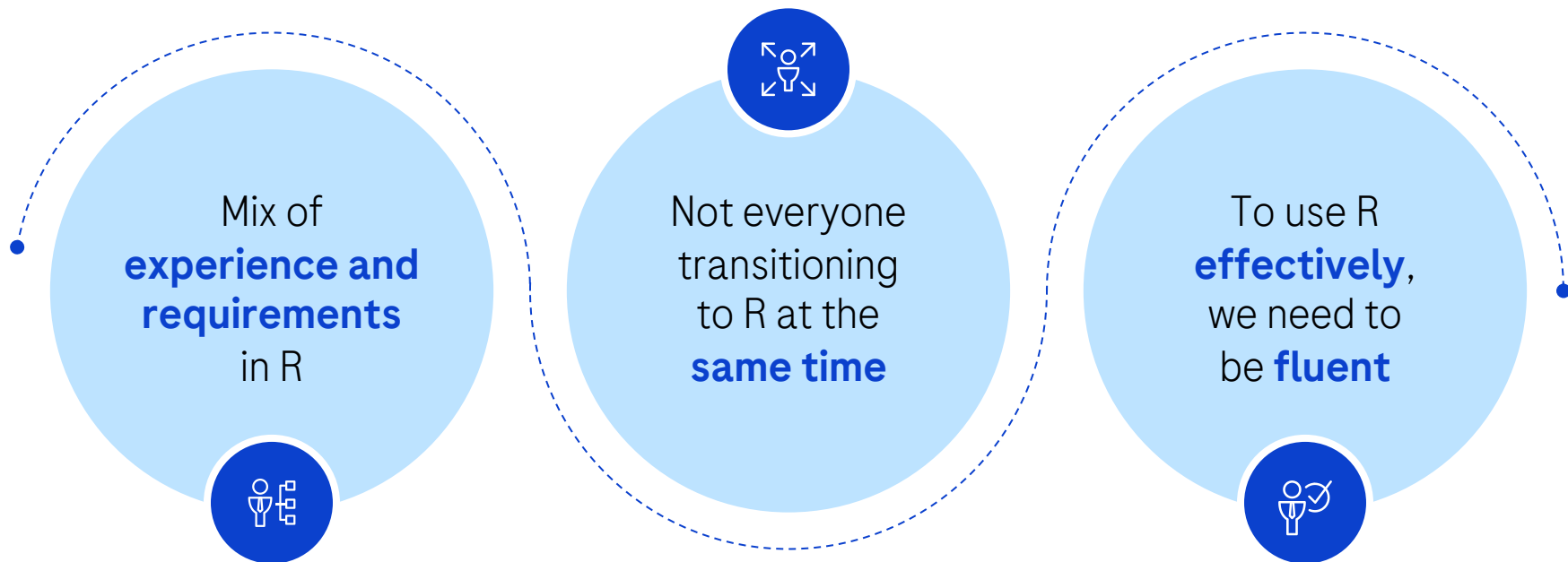
Project team onboarding



Tool development, based on iterative feedback



Our talent base



Training Curation



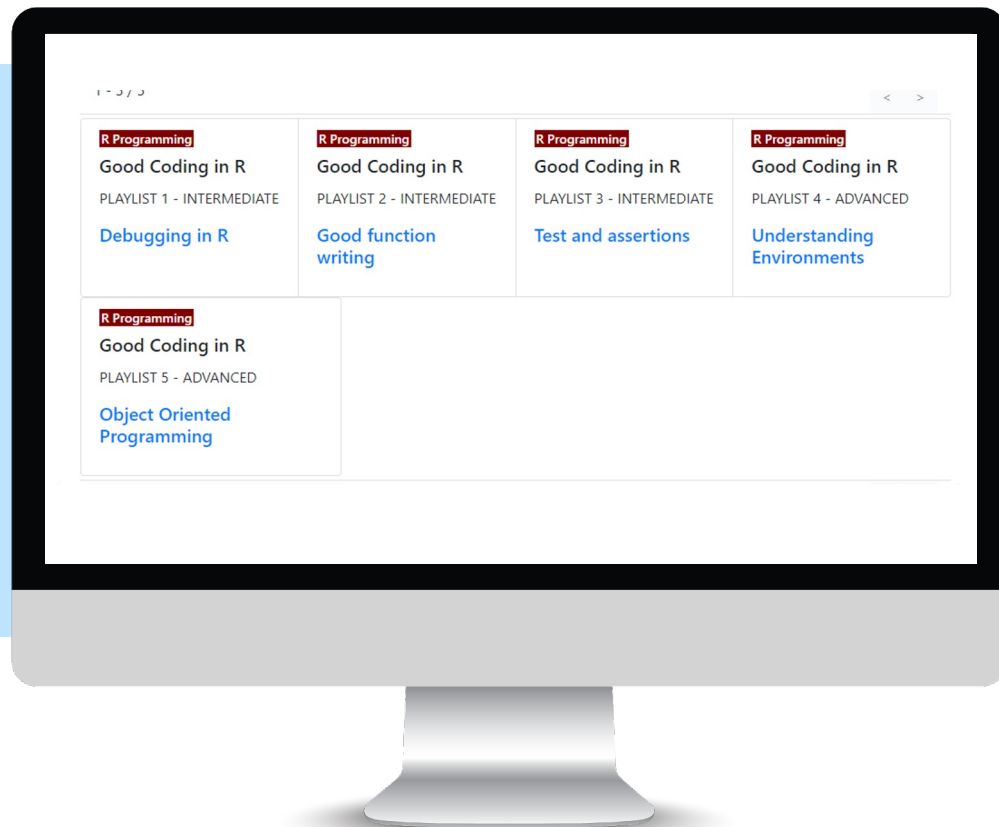
Data Science University



In house tool **curating**
existing materials



Giving a clear
learning path



Self guided learning: with help!



Data Science Profile



Break down a topic (Git, R),
into building blocks

Category: **Git**

Topic: **Basic git commands**

Level: **Beginner**

Restart from beginning

 Bookmark to come back to later

Select which of these apply to you

- ☐ I can select files I wish to add to a particular commit
- ☐ I know how to make a commit with a message
- ☐ I understand what metadata a commit contains
- ☐ I know how to look at git's history
- ☐ I can set up my git user name and email
- ☐ I can initialise a git repository
- ☐ I can check my current git status

Deselect
all

Select
all

Go back to
previous
topic/level

Submit your
answers

Transition to the “Next Generation” Data Science -

Software Product Teams



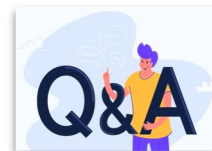
Communication Community



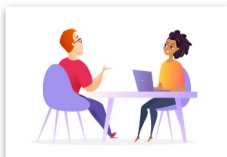
Ways of Working Community



User Support Community



Roadmap Scheduling Community



Onboarding Community





Any Questions?

Doing now what patients need next