

# Collaborative learning design



# COLLABORATIVE LEARNING DESIGN

***EARLY DRUG DISCOVERY EDUCATION-TRACK***  
***PHARMA-NL HUMAN CAPITAL CALL 2023-1***

# Nationaal Groeifonds PharmaNL

PharmaNL's ambition is to strengthen the pharmaceutical value chain in the Netherlands and remove bottlenecks, specifically by:

1. Infrastructure
2. Human capital development
  - Strengthening the pharmaceutical training portfolio with international appeal
  - To achieve an increase in the pharmaceutically skilled workforce: training sufficient suitable qualified personnel for the Dutch pharmaceutical value chain

# What is the goal of our project?

**The goal is to develop an Early Drug Discovery education track (EDD track) consisting of 8 post-HBO/WO courses and matching industry needs and requirements. The courses have a flexible scope and can be taken independently.**

- This project strengthens the current pharmaceutical training portfolio with EDD life-long learning courses.
- These are intended for employees of companies in the pharmaceutical sector.
- The content of the courses will be determined based on demand from companies working in EDD
- and will be developed in a consortium; Radboud University & HAN University of Applied Sciences in cooperation with Elevate and Pivot Park (at that time there was no Pharma consortium yet)

# Experience within the consortium

- **Carlien Verberne-van de Laak – Program manager HAN BioCentre**

- BSc Biotechnology & MSc Medical Biotechnology - WUR
- Experience in education & training at the HAN Life Science (e.g. USP, DSP, Biotechnologie)
- Work experience at MSD Animal Health & Synthon/Byondis



- **Adinda Diekstra – Program manager (post)bachelor courses ATBC (HAN)**

- BSc Biotechnology & MSc Molecular Life Sciences (HAN)
- Work experience at Radboudumc
- Experience in development of (short) courses and trainings for professionals



# Experience within the consortium

- **Prof. Floris Rutjes – Director IMM, Radboud University**

- 25 years experience in the development and training on BSc and MSc level
- Former Director Molecular Sciences & former vicedekan education FNWI, Radboud University
- 20 years experience in providing several different courses within the chemical/pharma industry (e.g. Organon, DSM, Symeres, Byondis, Acerta Pharma)



- **Elevate BV**

- Experience in development of education programs
- Offers accredited online courses and programs for medical professionals and clinical researchers.
- Portfolio includes: epidemiology, clinical research, data management



# What about you?



- Who studied at the Radboud?
- Who studied at the HAN?
- Who, after graduation while working, followed an education/course/training (part-time)
  - at the HAN or Radboud?
- Who followed trainings or courses provided internally at your company?

# Why do we need this "lifelong learning"?

-> Social mission

## Life long learning:

- Is a response to the rapidly changing environment;
- strengthens the learning and development culture for the benefit of a future-proof labor market and for workers who want to continue to develop.
- is the answer to (professionalization) questions arising from the dynamic, changing labor market.
- in response to shrinkage and environmental changes
- **requires quite a lot of both the organizations were professionals work and higher education institutions.**

# Lifelong learning at the HAN

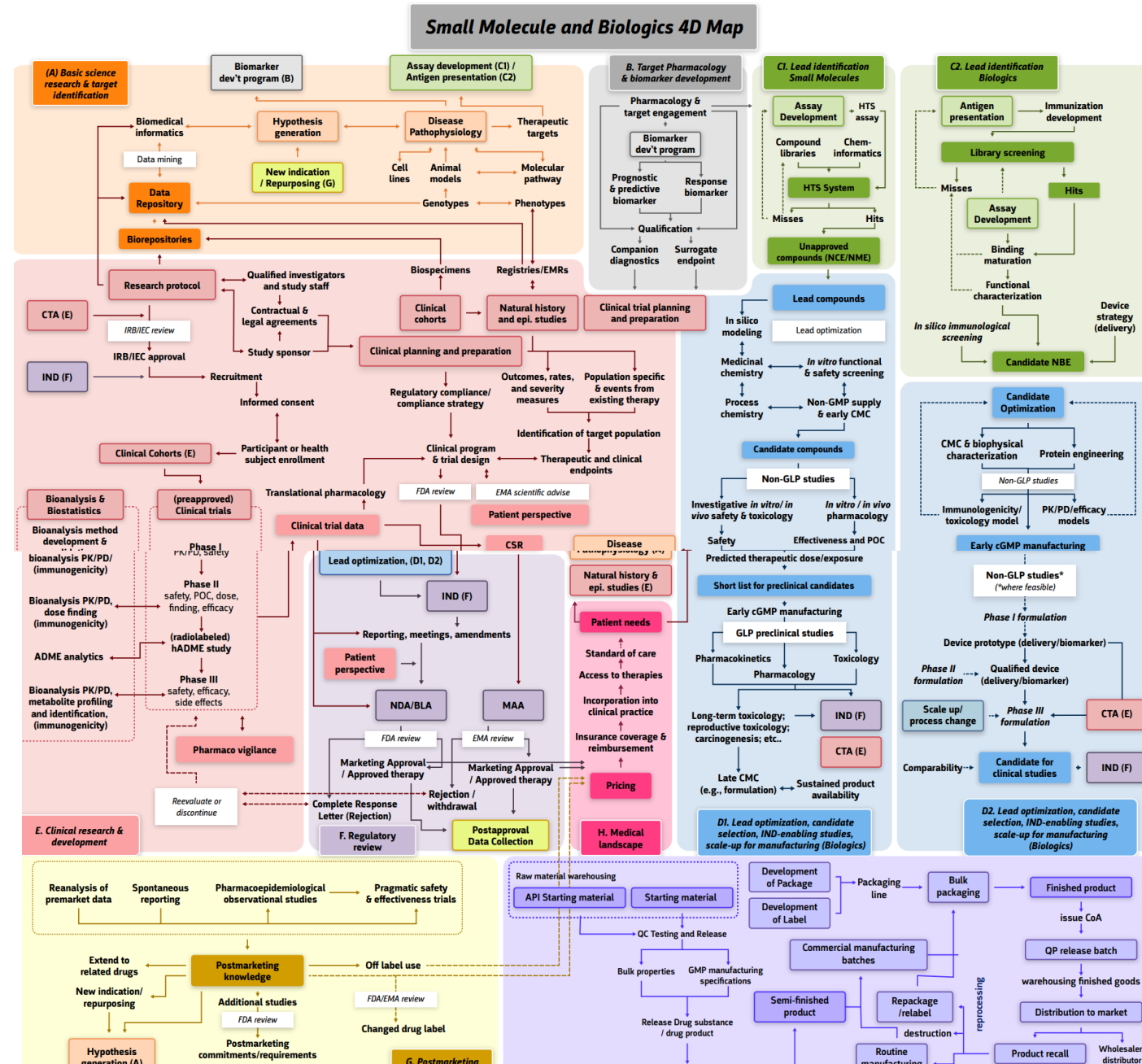
---



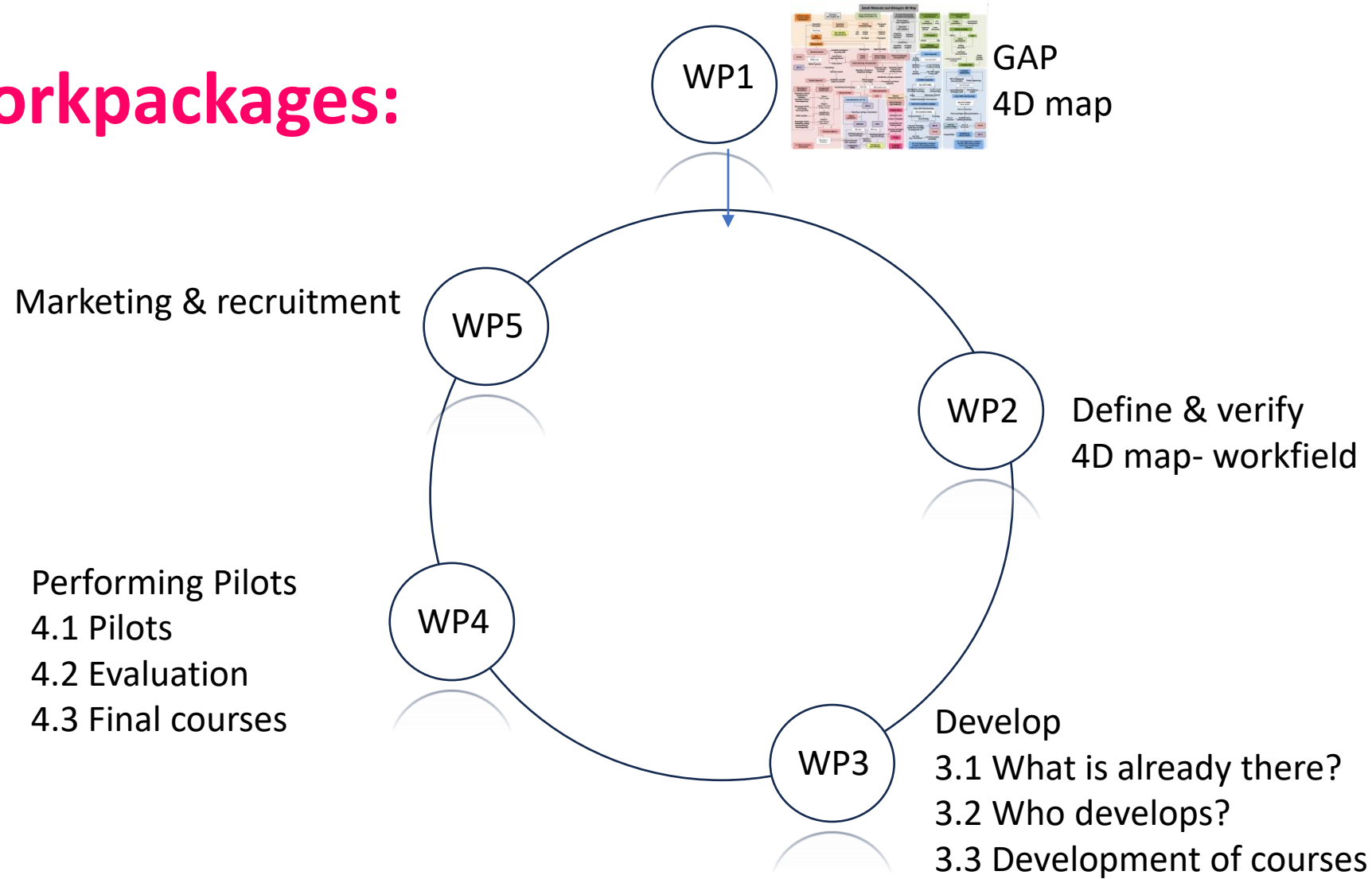
# Early Drug Discovery (EDD) track development

- The HAN will focus on 4 post-HBO EDD courses
- The RU will focus on 4 post-WO EDD courses
- Topics and content of these course will be determined by the GAP analysis

# Start = 4D map GAP analysis



# Workpackages:



PharmaNL

Radboud University



elevate

HAN UNIVERSITY  
OF APPLIED SCIENCES

# Design of the courses

1. A learning path connects to different career paths: commercial/management or (technical) specialist;
2. Structure, duration and form of the course will match the topic and needs of the field;
3. A learning path is flexible and as close to the field as possible;
4. A learning path contains an up-to-date and dynamic learning offer, in line with the needs from the field and trends in the market;
5. Each module in a learning path is of a consistent, uniform and high quality;
6. Quality assurance & marketing through embedding in Radboud Academy & HAN Lifelong learning(LLO) course offerings.

# Pivot Park as a location & link to workfield

A dynamic campus and knowledge community for start-up, scale-up and established biopharmaceutical:

- Facilities
- Centre of Knowledge
- Open access labs
- Excellent connections



# Evaluation & follow-up

- Project objective = to develop courses
- Offer of pilots at reduced rates
- Marketing of the courses commercially
- Based on evaluations and GAP analysis, continue to offer up-to-date course offerings that is attractive to companies

# Examples ongoing activities

Within our HAN Life Science Bachelor Program:

- Optional course = Minor Drug Discovery
- Location Pivot Park
- Guest lectures from professionals, e.g. Pivot Park Screening Centre (PPSC)
- Students working on practical projects from e.g. PPSC

→ Can we use current courses and connections for post-Bachelor education as well?



PharmaNL

Radboud University



elevate

HAN UNIVERSITY  
OF APPLIED SCIENCES

## Other PharmaNL initiatives

### GRONINGEN

- Groningen Human Capital for LIFE Sciences
- LIFE cooperative → LIFE Academy (LA)
- 10 modules
- Genetechnology, Bioinformatics, bioanalysis

### LEIDEN

- Life-long learning program for post-graduate biomedical and pharmaceutical professionals
- LUMC
- Online modules
- Pharmaceutical, biotechnology, vaccines



# Summary of the EDD-track course development

- Strong consortium with very extensive teaching experience
  - Complementary content expertise
  - Extensive network of interested companies
  - Assessment using innovative GAP Analysis tool
  - Embedding of courses in existing LLO portfolio & structures of RU and HAN
- Collaborative learning design**



PharmaNL

Radboud University



elevate

HAN UNIVERSITY  
OF APPLIED SCIENCES

# Open up your horizons

*Visit our table discussion this afternoon  
about 'Requirements for life long learning'*

