



Covalab Bio US 2026

« From Research to Discovery »

covalab
R&D in Biotechnology

Our expertise

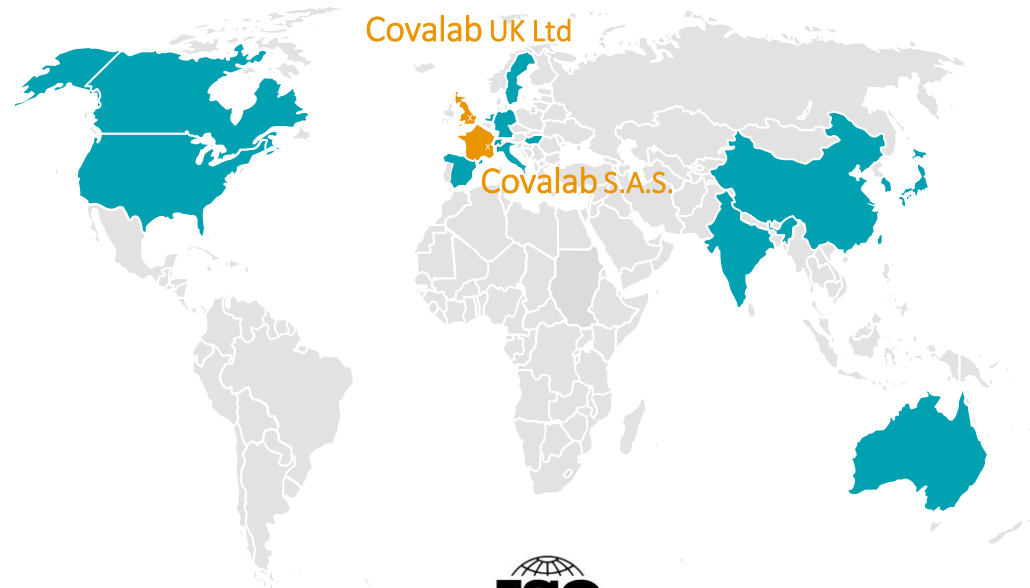
Founded in 1995

More than 28 years of expertise
in the field of Antibody
Engineering

Immunotechnology specialist

Worldwide distributors &
partnership (european projects)

Team: 20 employees + 2 PhD
students
Highly trained scientific staff

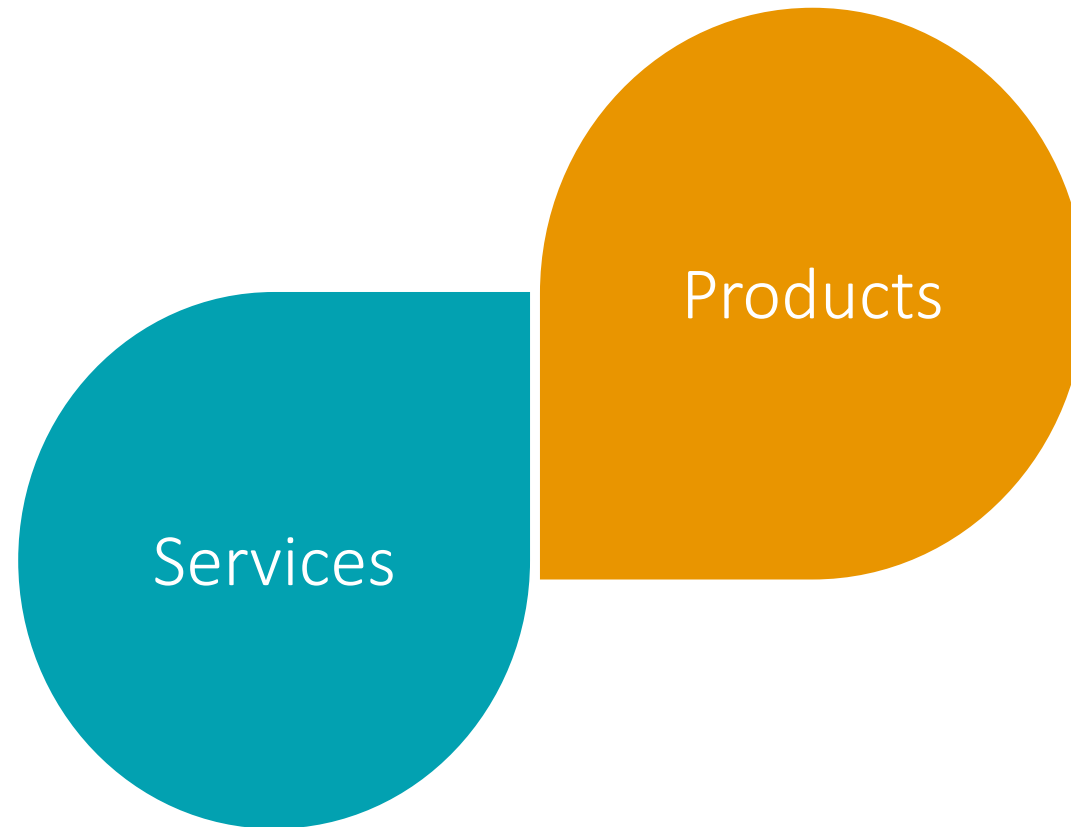


9001:2015

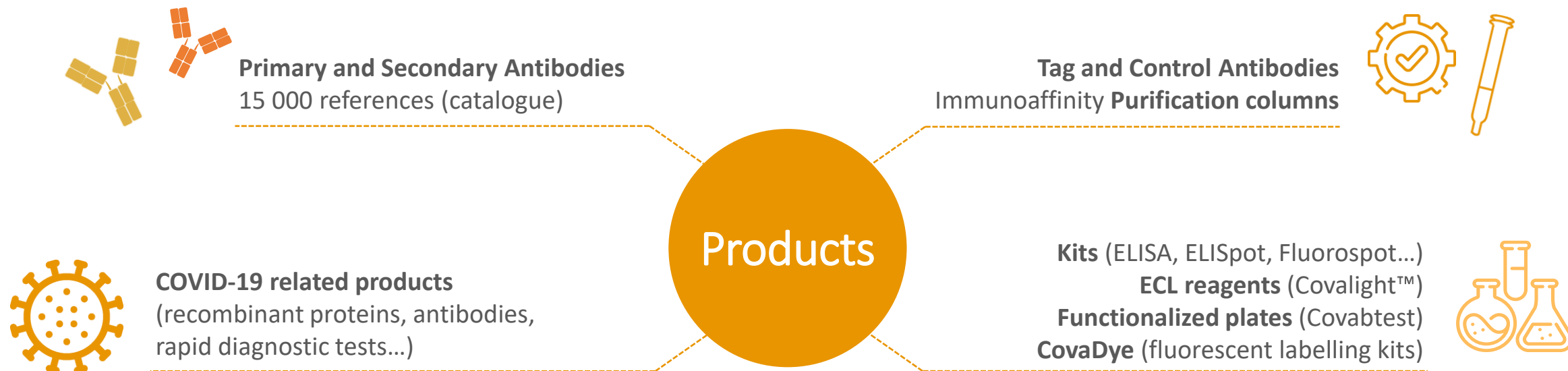


Animal house agreement : C 21 464 04 EA

One company, two offers



High Quality product range



RESEARCH AREAS

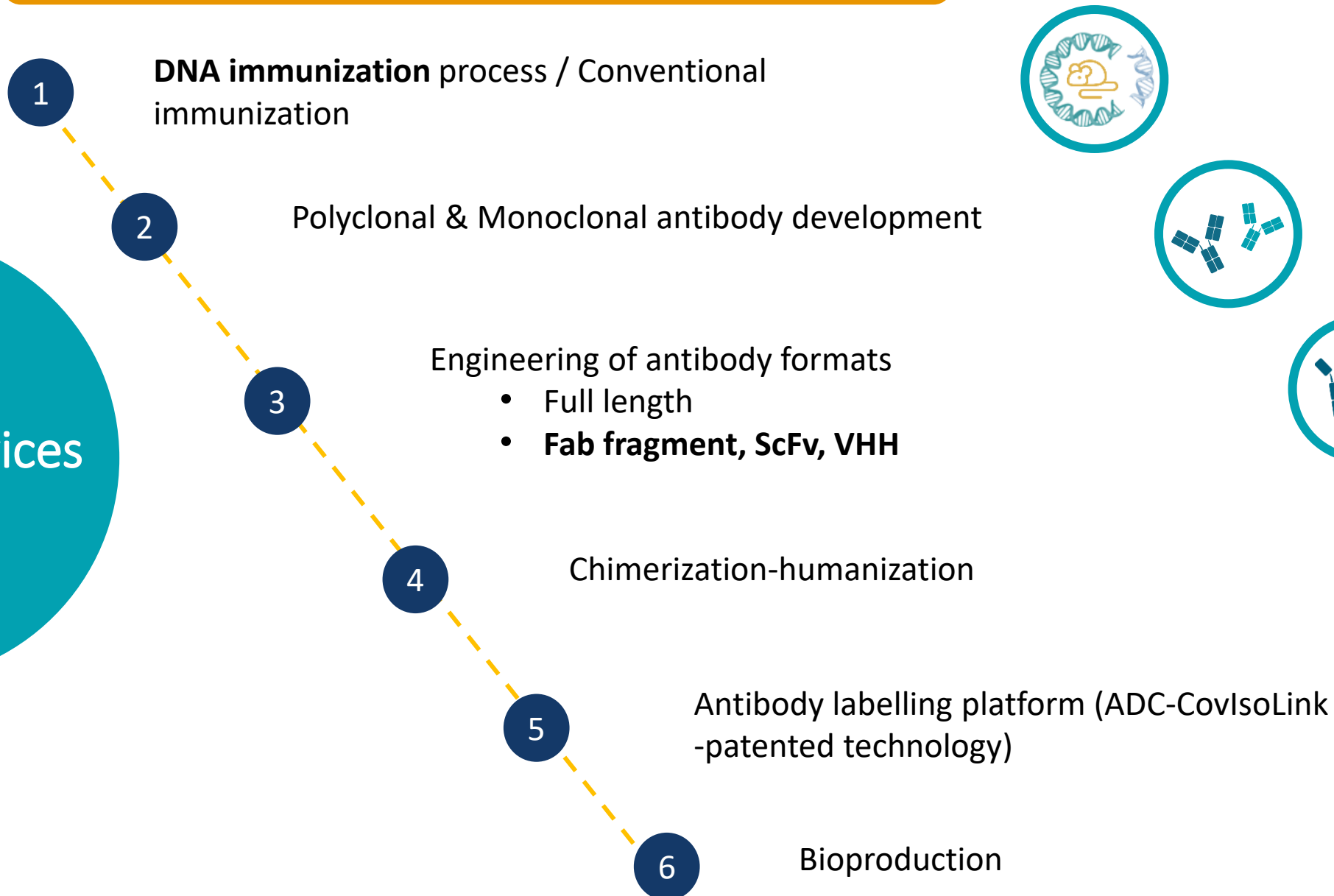
Cancer	Plants
Cell metabolism	Transglutaminase
Ion channels	Stem cells
Hypoxia	Neurology
Lipidomics	Virology
...	

SEVERAL HOSTS

Mouse	Camelid
Rabbit	Goat
Rat	Sheep
Guinea Pig	Chicken

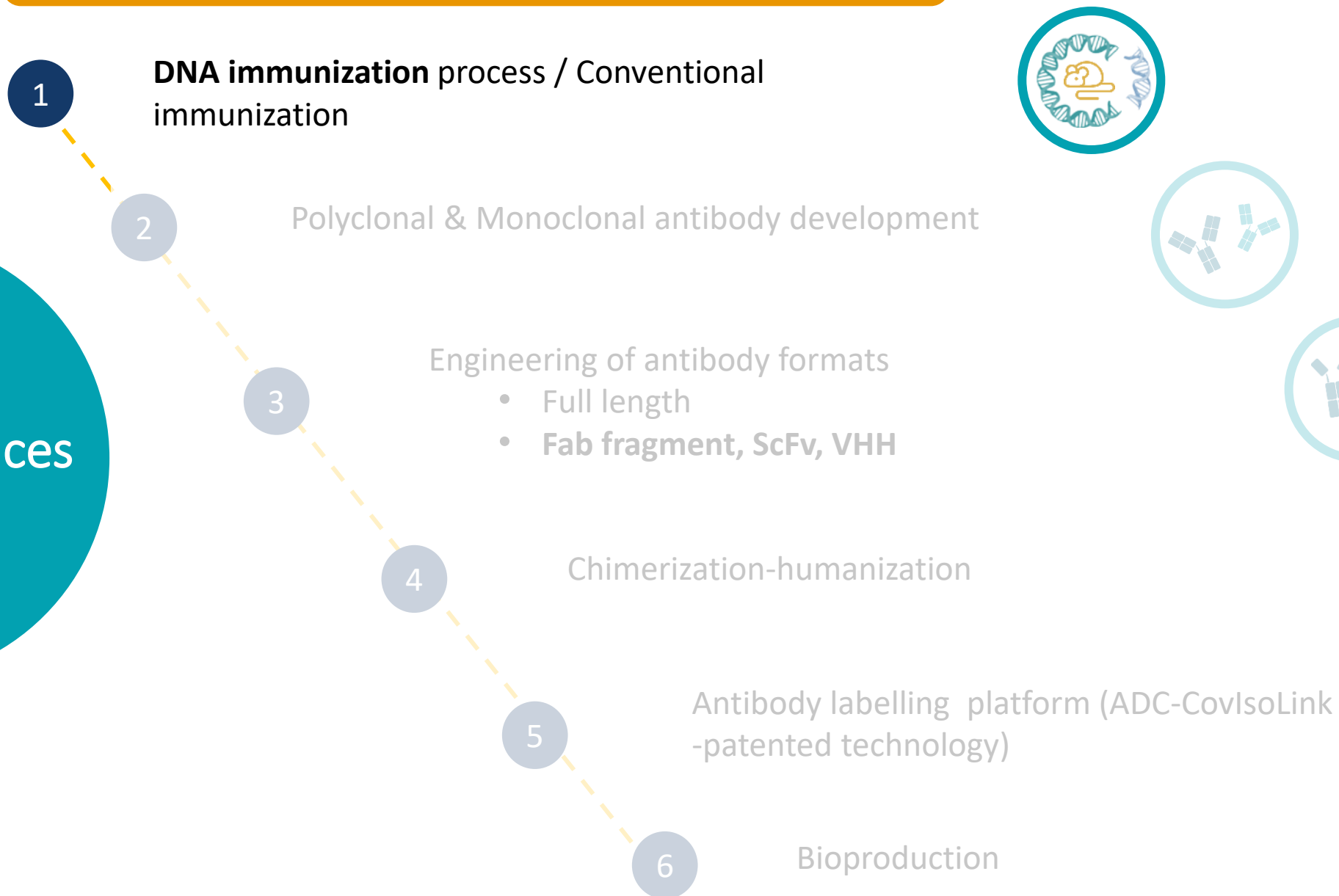
Antibody development

Services



Antibody development

Services

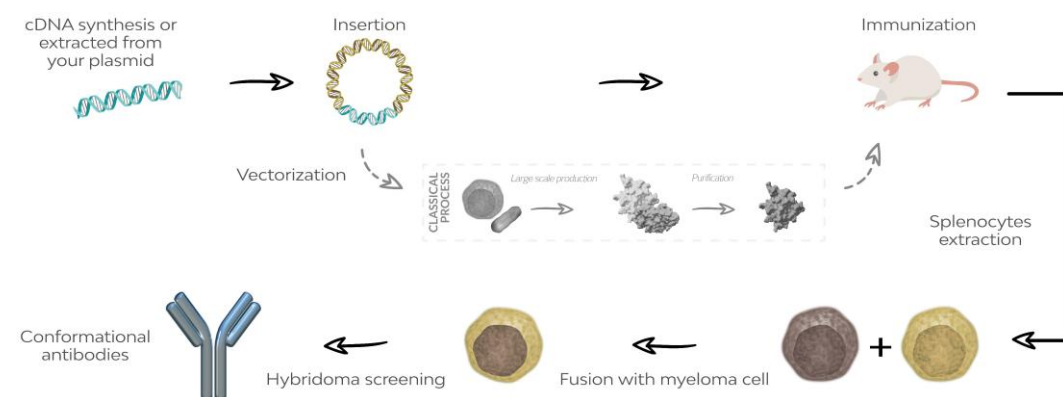
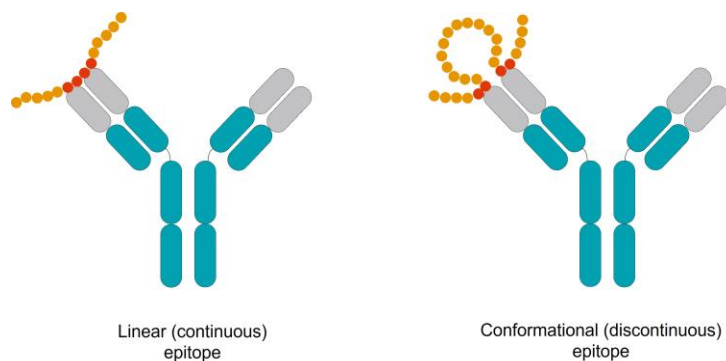


DNA immunization



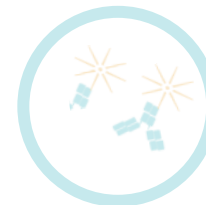
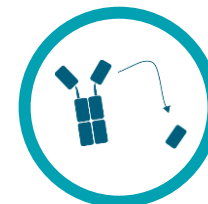
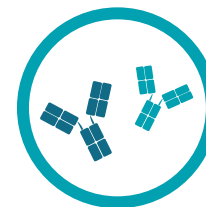
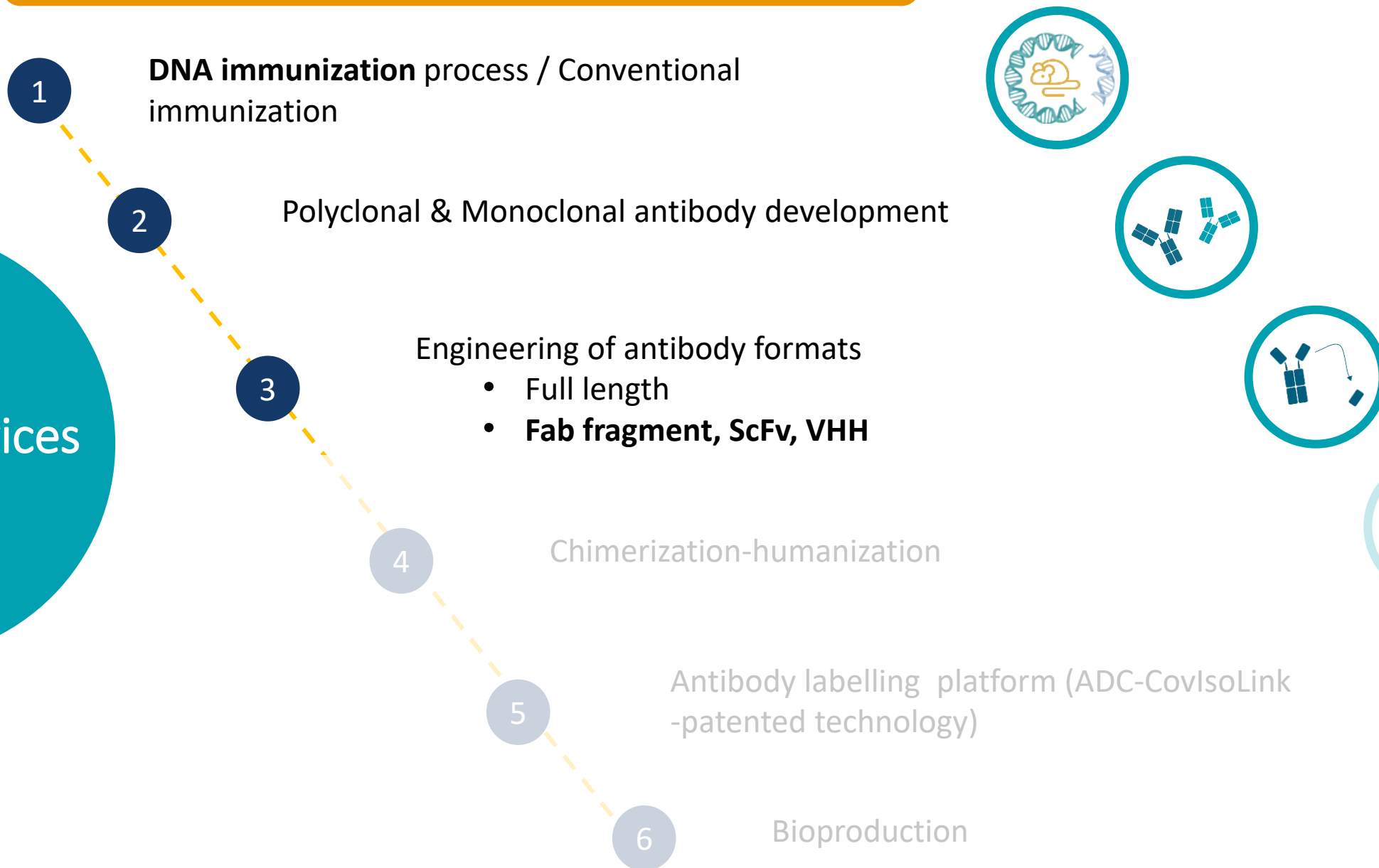
DNA immunization process / Covalab's Exclusive technology

- *In vivo* transfection
- *Conformational/Native epitopes (IIR structure)*
- *Post translational modifications*



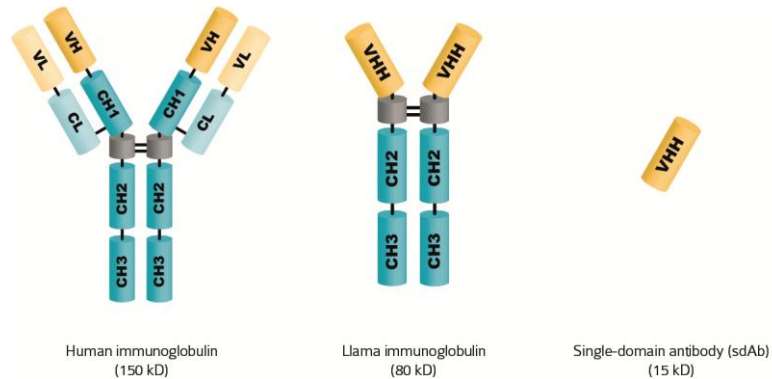
Antibody development

Services



Antibody Engineering : VHH

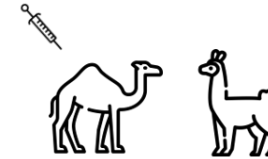
Nanobody platform: Single domain antibody



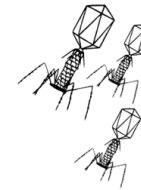
10 x smaller than conventional IgG
-> Bind the hidden epitope
 Better permeability
 High stability

Project process

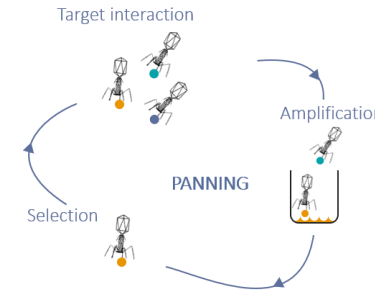
1- CAMELID IMMUNIZATION



2- PHAGE LIBRARY CONSTRUCTION



3- PANNING

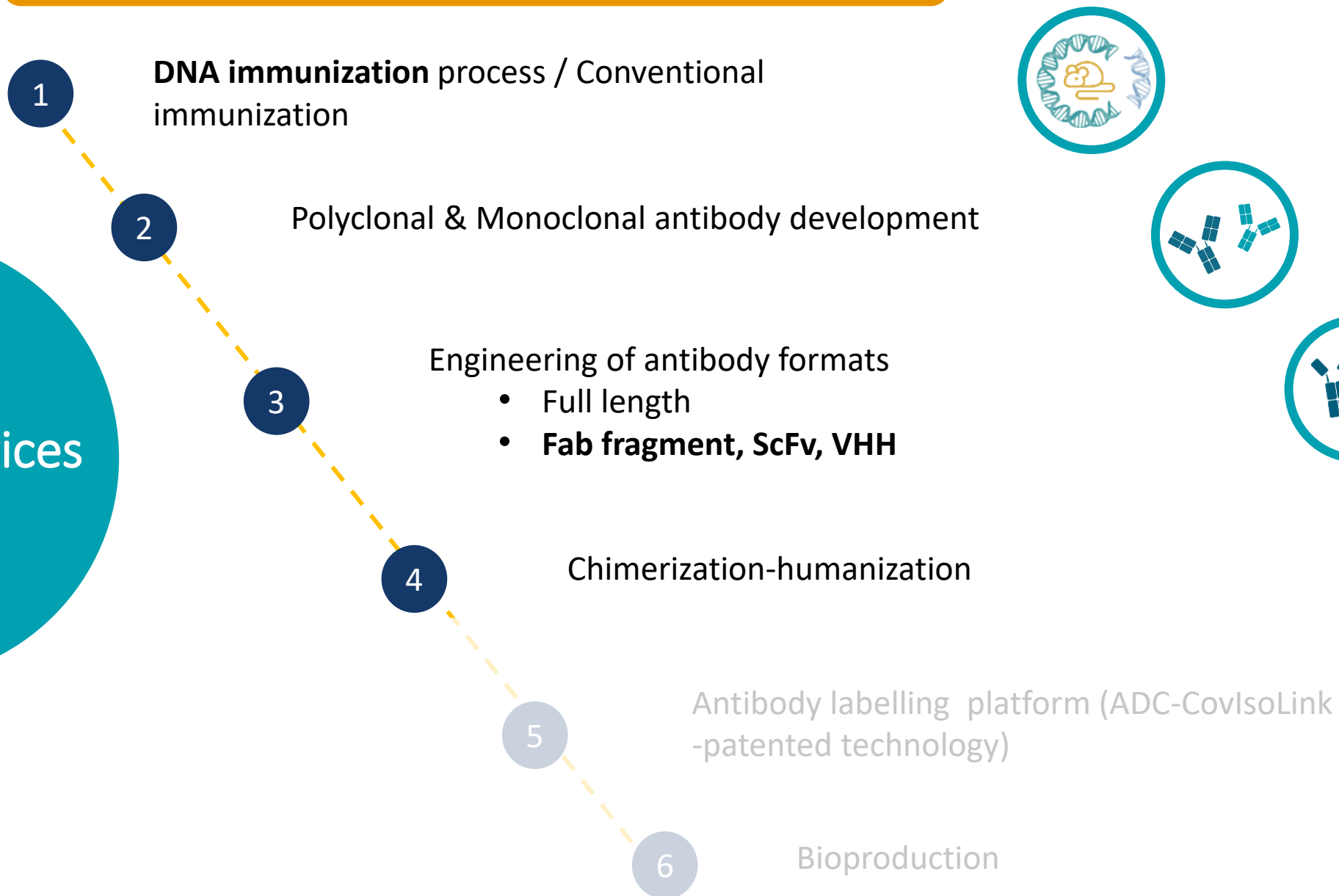


4-HIGH SCALE PRODUCTION



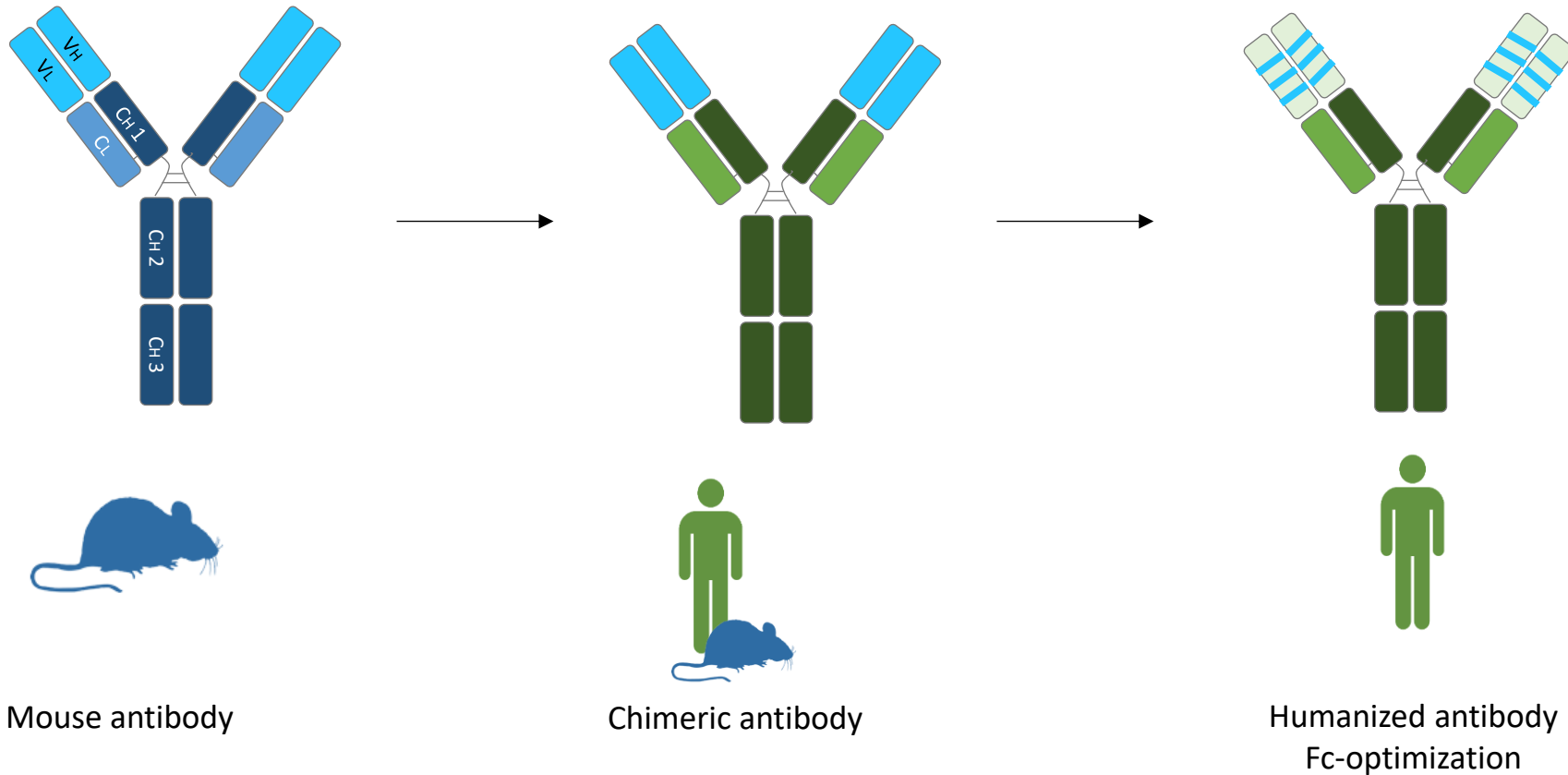
Antibody development

Services



Antibody Engineering

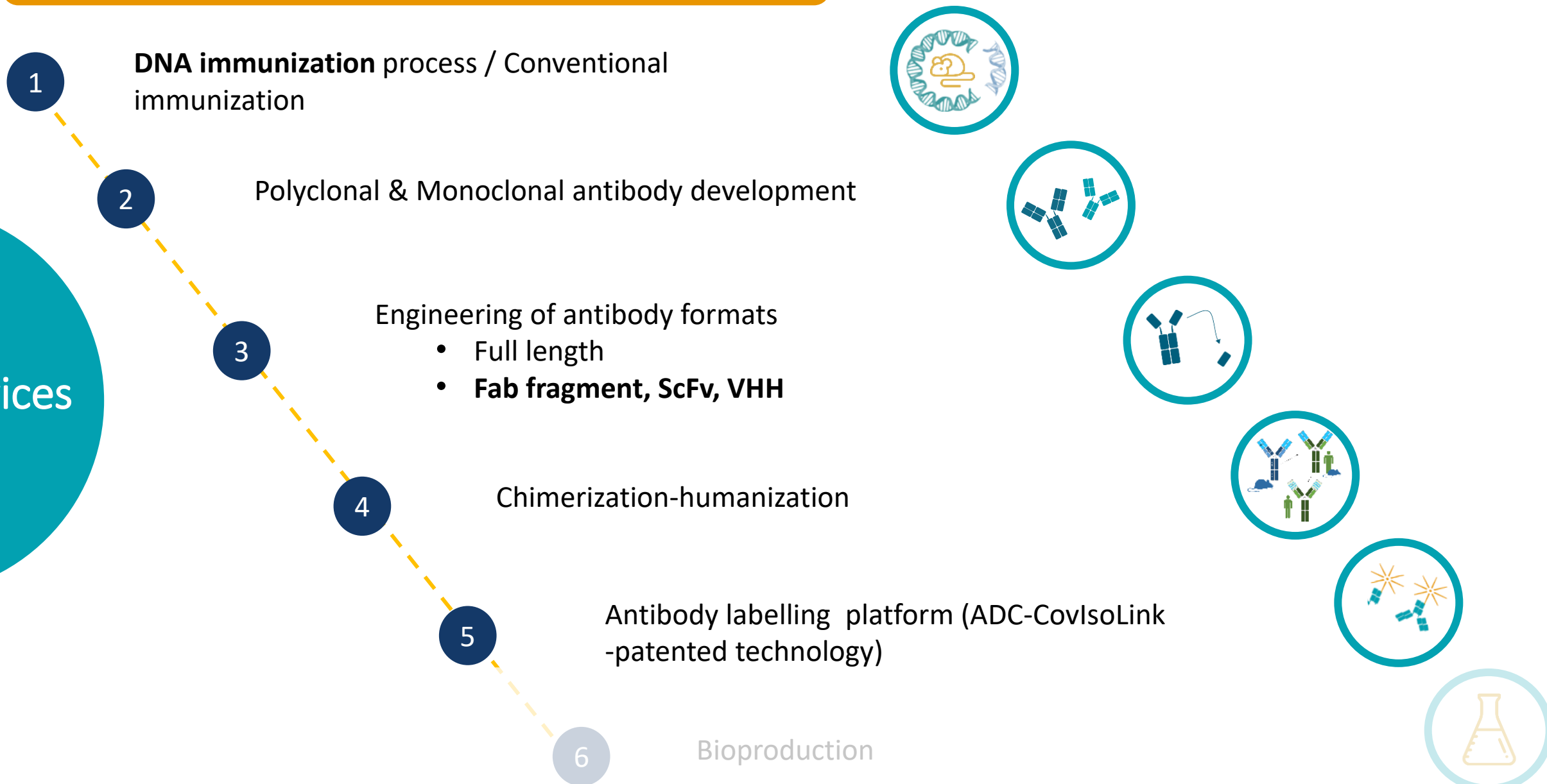
Recombinant antibody platform: Humanization



From R&D to therapy

Antibody development

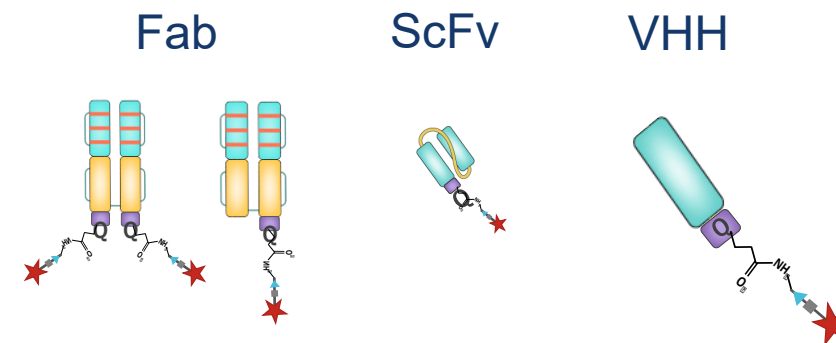
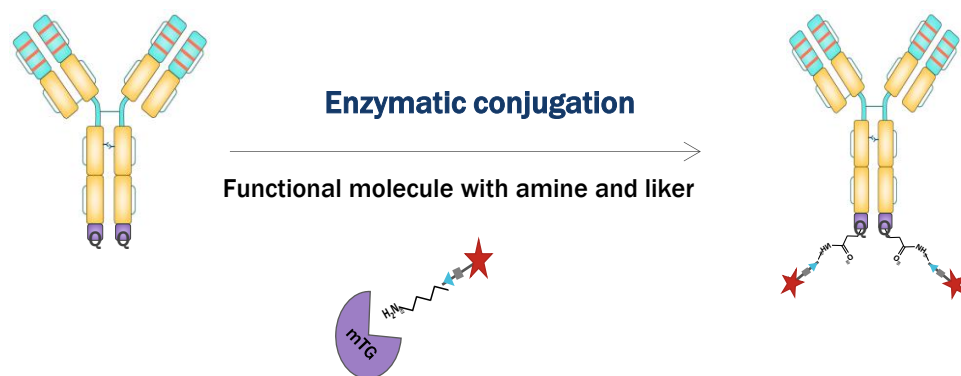
Services



Applications



Site specific conjugation technology



- **Controlled & site specific**
- Suitable for :



Therapeutics (ADCs ...)



Diagnostics (Radio labelling ...)



R&D (dyes ...)

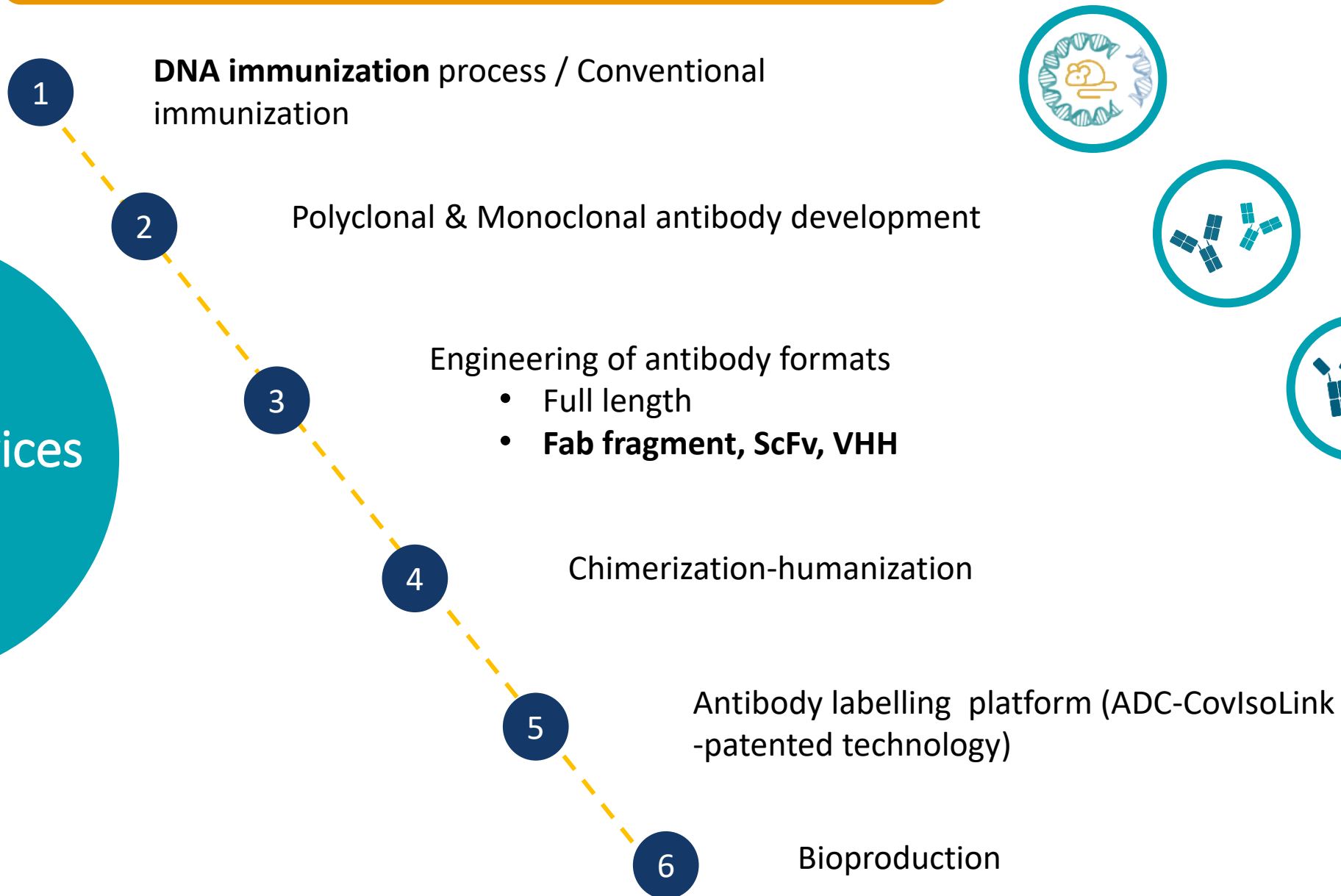
- **Available for all mAb format :**
 - Full Length
 - Fab
 - scFv
 - VHH

AbTx

ANTIBODY FOR THERAPY

Antibody development

Services



Bioproduction process



PROKARYOTE
E. Coli



EUKARYOTE
HEK, CHO



LARGE SCALE APPLICATION
FROM mg TO g
12L bioreactor scale up



TRANSIENT & STABLE TRANSFECTION
Various Tags (6His, FLAG, GST...)

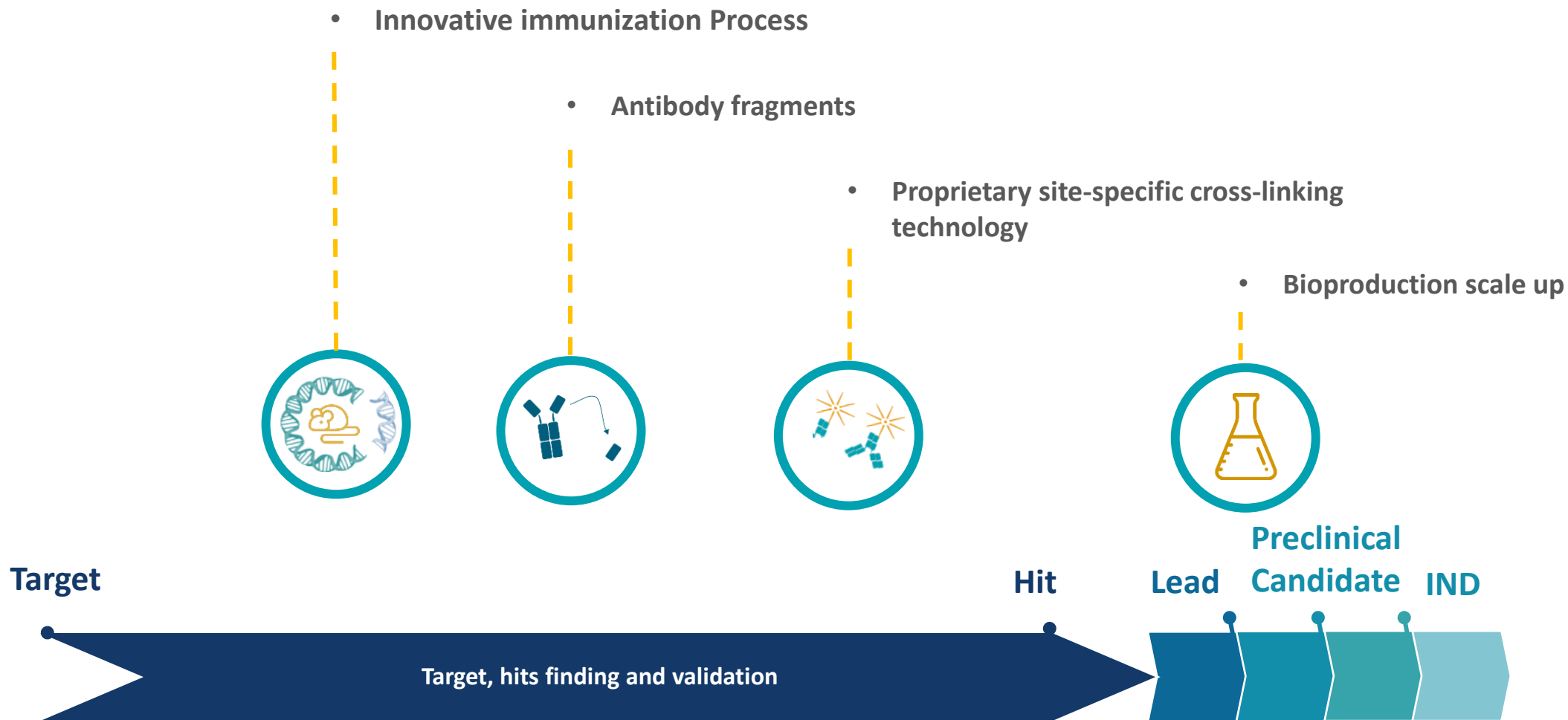


QUALITY CONTROL
HP-SEC, ELISA, SDS-PAGE...



Take home message

- Give to customers high quality antibodies and powerful tools to speed-up their discovery



Thank you !



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