



WHY A 3Rs-INNOVATION CENTER AT THE VUB, CAMPUS JETTE?

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WHAT IS 3Rs CONCEPT?



WHAT ?

ALTERNATIVE METHODS ACCORDING TO 3Rs CONCEPT

REPLACEMENT

REDUCTION

REFINEMENT



IN REGULATORY CONTEXT: VALIDATED ALTERNATIVE METHODS

RELEVANT

REPRODUCIBLE

PREDICTION MODEL

ULTIMATE GOAL → REPLACEMENT

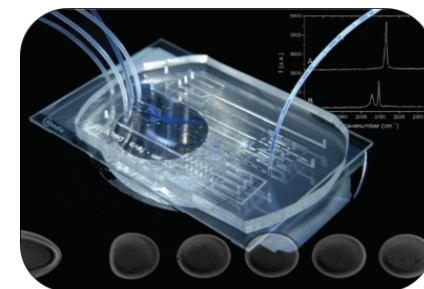
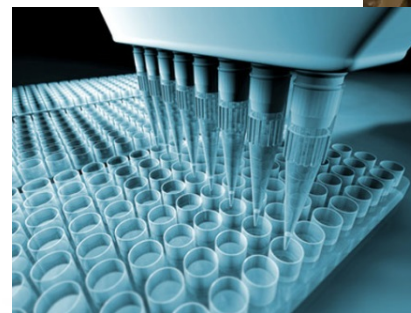
Possible via different methodologies → **NAMs = New Approach Methodology:**



alternative in vivo models



in vitro tests

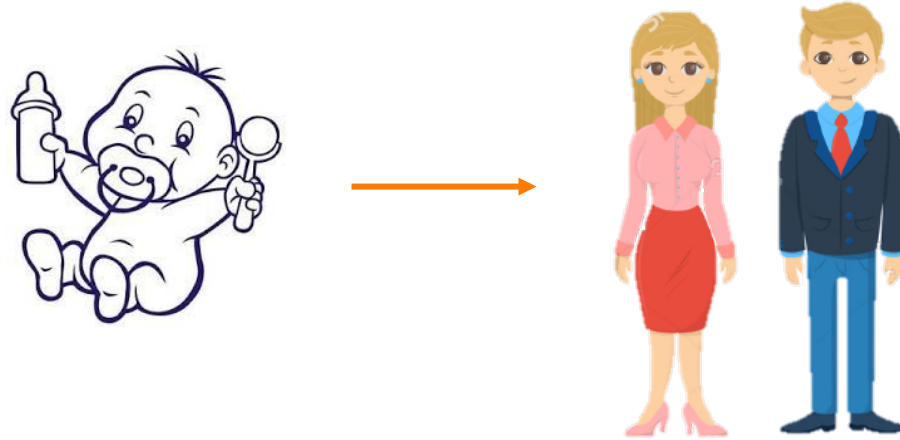


in chemico methods



*in silico models
read-across, QSAR, grouping, ...*

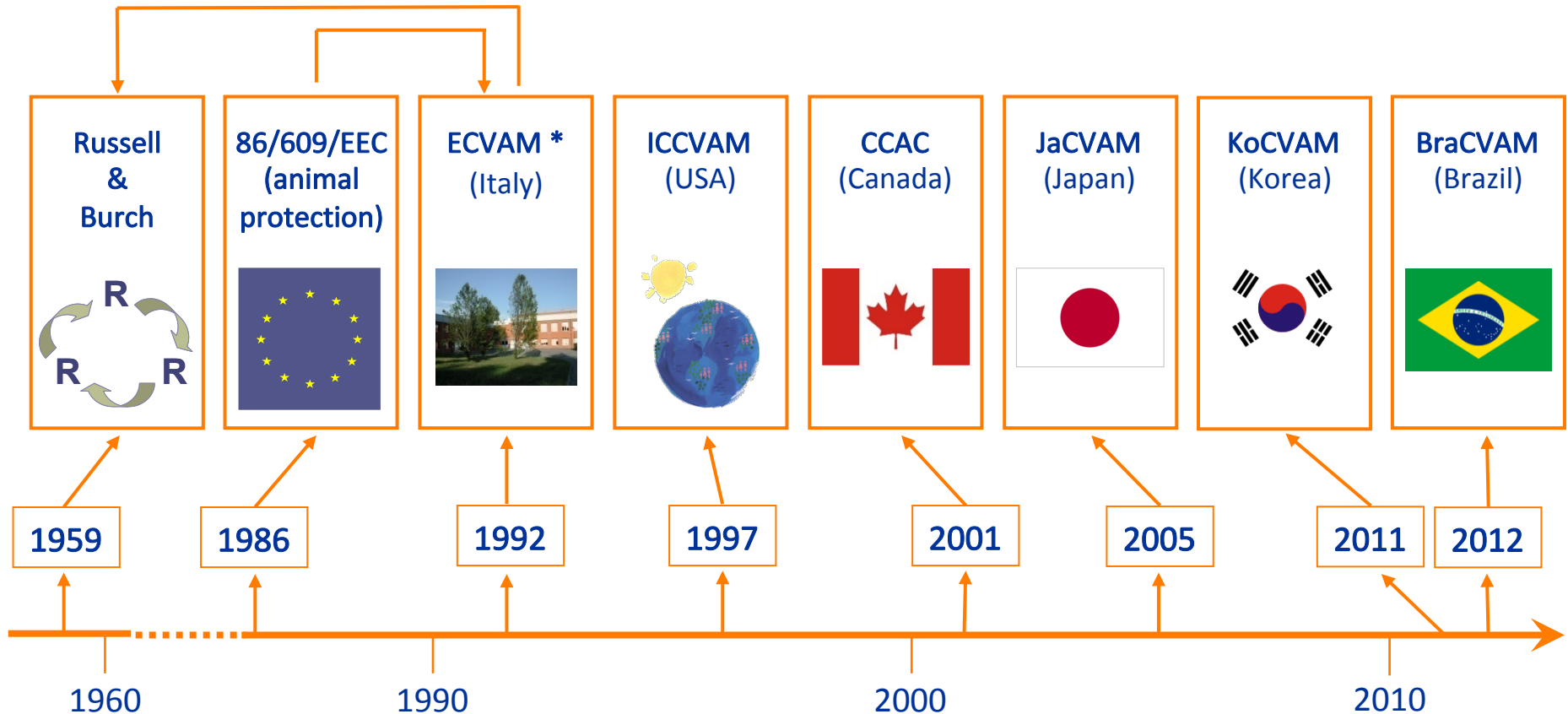
3Rs-concept from birth to mature growth!



Three levels of development

1. International → 2. National → 3. Regional

1) AT INTERNATIONAL LEVEL: Birth and growth of 3Rs



INTERNATIONAL DEVELOPMENT OF 3RS PRINCIPLE

2) AT NATIONAL LEVEL: Implementation of 3Rs in legislation

Through Dir. 2010/63/EU Member States must implement 3Rs into national legislation



In Belgium: KB 29 May 2013
“on Protection of Experimental Animals”



Includes obligation to show proof that the 3Rs have been taken into consideration in project under discussion

3) AT REGIONAL LEVEL: Under Animal Welfare

Sixth State Reform in Belgium (01/07/2014)



Delegation of powers, including Animal Welfare, to the regional level

FLANDERS

- Minister Ben Weyts
- Database Re-Place
- Sciensano + VUB

BRUSSELS

- Minister Bernard Clerfayt
- Register of replacement alternatives: joined RE-Place

- Sponsoring of VUB stem cell research (IVTD)

WALLONIA

- Minister Célie Tellier
- Walcopa (Wallonia Consensus Platform for Alternatives??)



WHAT IS ROLE OF VUB? OF IC-3Rs?

<https://www.3rs.org>

VUB did pioneering work since 1985 at international, EU and national level

→ Required legislative framework is now present



...e methods.

Visibility ↑

Promotion tool ↑
for relevant & humane science

Information source

Communication ↑

Cutting edge research ↑