



# Directive 2010/63/EU

## Advancing the Three Rs education and training under a European Parliament Pilot Project

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# Advancing the Three Rs education and training under a European Parliament Pilot Project



- *Pathway towards full replacement*
- *Focus areas and existing tools*
- *Three work streams*

# EP Pilot project on alternatives



*1M euros to promote alternatives through information sharing and education activities*

- *promote uptake of existing alternatives;*
- *facilitate development and validation of new alternatives;*
- *foster exchanges of information and best practices and*
- *provide tools for education and training to facilitate the application of the principle of the Three Rs*

# Pathway towards the final goal



*"...this Directive represents an important step towards achieving the **final goal of full replacement** of procedures on live animals for scientific and educational purposes as soon as it is scientifically possible to do so"*

# Pathway towards the final goal



## ***Article 4 - Principle of replacement, reduction and refinement***

*"1. Member States shall ensure that, wherever possible, a scientifically satisfactory method or testing strategy, **not entailing the use of live animals, shall be used** instead of a procedure."*

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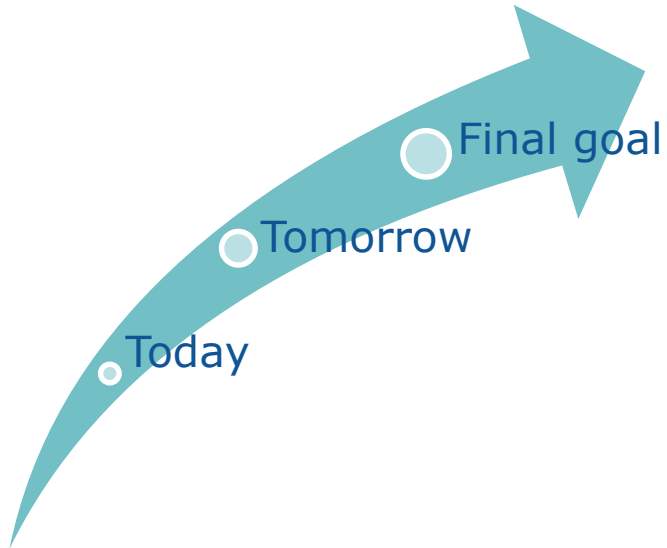


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## What tools are lacking?

## Who needs Three Rs today?

## What tools exist?



# Today's users

Practical **training**, Continued Professional Development (**CPD**)

**Implementation of the Directive** : develop **resources** and **tools** for key roles such as members of AWB & NC, project evaluators, competence assessors, inspectors, competent authorities

# Future scientist

Tools and strategies  
for **educators** on the  
integration of 3Rs in  
curricula

**3Rs education at  
schools, universities,  
and for early career  
scientists**

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## Support network

3Rs information sources, networks, dissemination platforms

Central platform for LAS E&T  
**ETPLAS**

Multi-disciplinary approach to cross-fertilise research tools

R&D on modern non-animal research methods

Regulatory application, incl. validation and acceptance

Instruments for measuring progress

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**Tools and strategies for educators** on the integration of 3Rs in curricula

**3Rs education at schools, universities, and for early career scientists**

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# Existing tools

- *EU Education and Training Framework guidance document*

[https://ec.europa.eu/environment/chemicals/lab\\_animals/pubs\\_guidance\\_en.htm](https://ec.europa.eu/environment/chemicals/lab_animals/pubs_guidance_en.htm)

- *Inventory of Three Rs knowledge sources*

- *Three Rs Education and Training Courses and Resources*

[https://data.jrc.ec.europa.eu/dataset?science\\_area\\_name=health+and+consumer+protection&sort=sort\\_criteria+desc%2C+title\\_string+asc&projects=EURL-ECVAM](https://data.jrc.ec.europa.eu/dataset?science_area_name=health+and+consumer+protection&sort=sort_criteria+desc%2C+title_string+asc&projects=EURL-ECVAM)

# EU E&T Framework



## ***Modular training:***

- *Flexible to the needs of the trainee*
- *Output driven quality criteria*
- *Detailed learning outcomes (LOs)*
  - Theoretical knowledge to be gained
  - Practical skills to be obtained
- *Defined assessment and pass/fail criteria*
- *Separate competence assessment after working under supervision*

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1. Develop open access, interactive **eLearning tools**
2. Facilitate **mutual recognition** of, and **access to quality E&T** through **ETPLAS**
3. Create practical **teaching resources** on alternative approaches to support **Three Rs education**

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# 1. Development of open access eLearning modules



Focus on **all Three Rs** and **Directive implementation**

- Design of procedures and projects (levels 1 and 2)
- Project evaluation
- Severity Assessment Framework

Focus on **Replacement**

- Searching for non-animal alternatives
- Developing alternatives for regulatory application

## 2. ETPLAS for consistency and harmonisation of LAS E&T



- *Tools for the assessment of Learning Outcomes*
- *Tools for competence assessment*
- *Hosting of eLearning modules developed under EP Pilot*
- *Further development of central database for other learning resources*

# 3. Creation of Three Rs teaching resources



- *Presentation by Francesca Pistollato from EURL-ECVAM, Commission Joint Research Centre*



# Timelines for deliverables



- *Work started January 2019*
- *Involvement of wider expert review groups for quality control and feedback*
- *Completion of projects by the end of 2020*

# *Thank you for your attention!*

*More information at:*

[http://ec.europa.eu/  
animals-in-science](http://ec.europa.eu/animals-in-science)

