Directive
2010/63/EU

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

Linz Alternative Congress
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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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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

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**What tools are lacking?**

**Who needs Three Rs today?**

**What tools exist?**

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Today's users

Final goal

Tomorrow

Today
Future scientist

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

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

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.
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

Future scientist

Today’s users

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

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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

- **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
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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EP Pilot project on alternatives

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
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