

# Raising awareness of citizens: national strategy and involvement of schools

Agenda item 15.2

Forum-22

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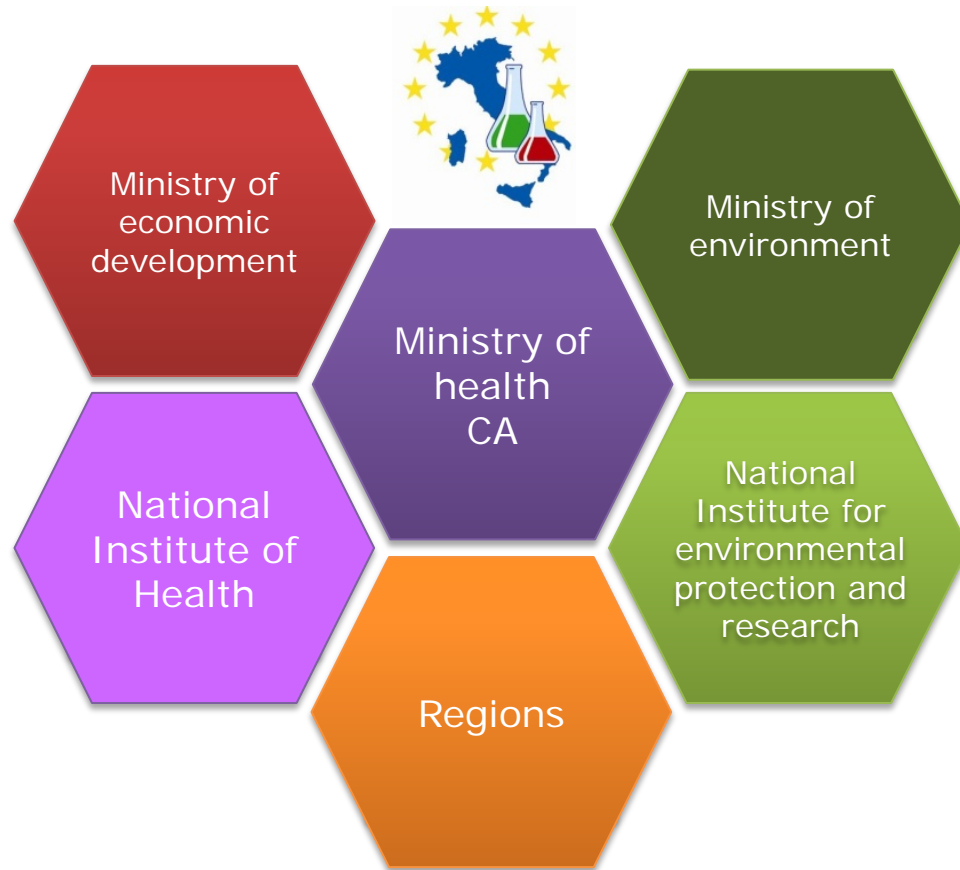
Ministry of Health  
Italy



# Outline

- National strategy for the enforcement of REACH and CLP
- Raising awareness and education
- Education tiered approach
- The involvement of schools

# National organisation: the actors



# National organisation: the Committee and its WGs



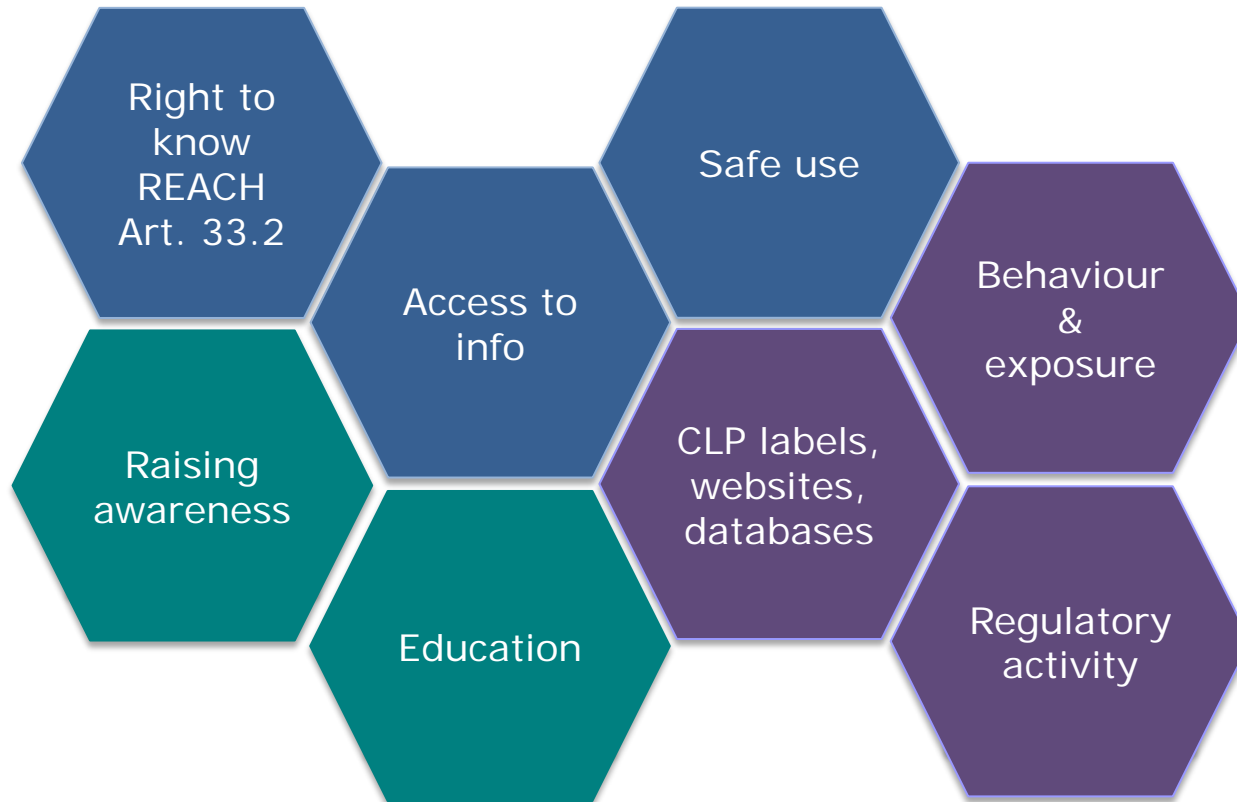
# National strategy for enforcement of chemical regulations



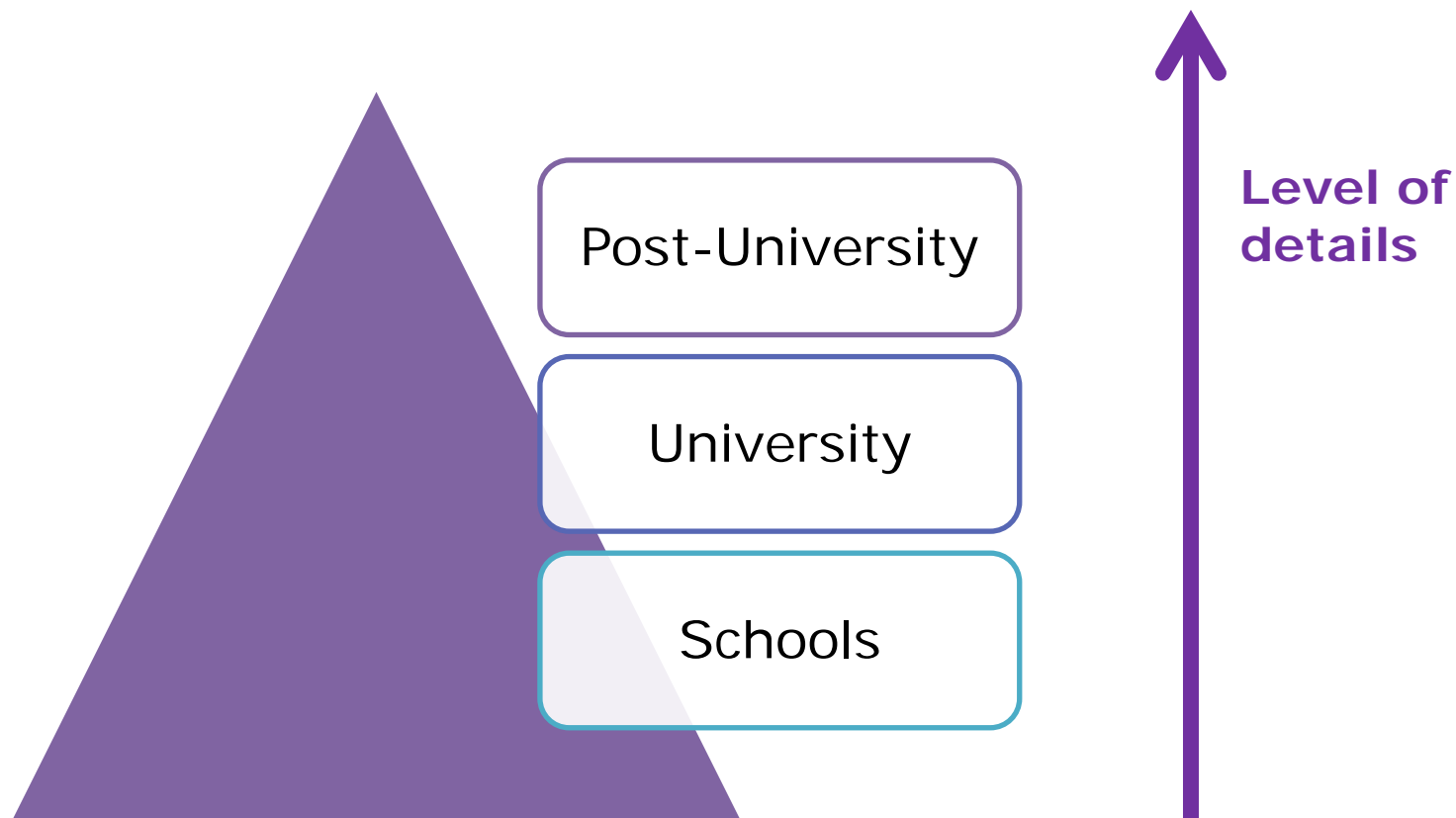
*Two sides of the coin*



# Raising awareness of citizens and education



# Education tiered approach



# Education tiered approach

## Post-University

- **Master in REACH**

*Decree of the Ministry of education, universities and research and Ministry of health 16.6.2010 – O.J. n. 164 16.7.2010.*

2009 - 2015: n. 20 courses in n.8 Universities

- **Specialisation school on Assessment and management of chemical risk**

*Decree of the Ministry of education, universities and research 19.6.013 – O.J. n. 148 26.6.2013*

2015/2016: n. 3 schools in n. 3 Universities





# Education tiered approach



## University

Several Universities have been approached and elements of EU chemical regulations have been integrated in bachelor programmes



# Education tiered approach

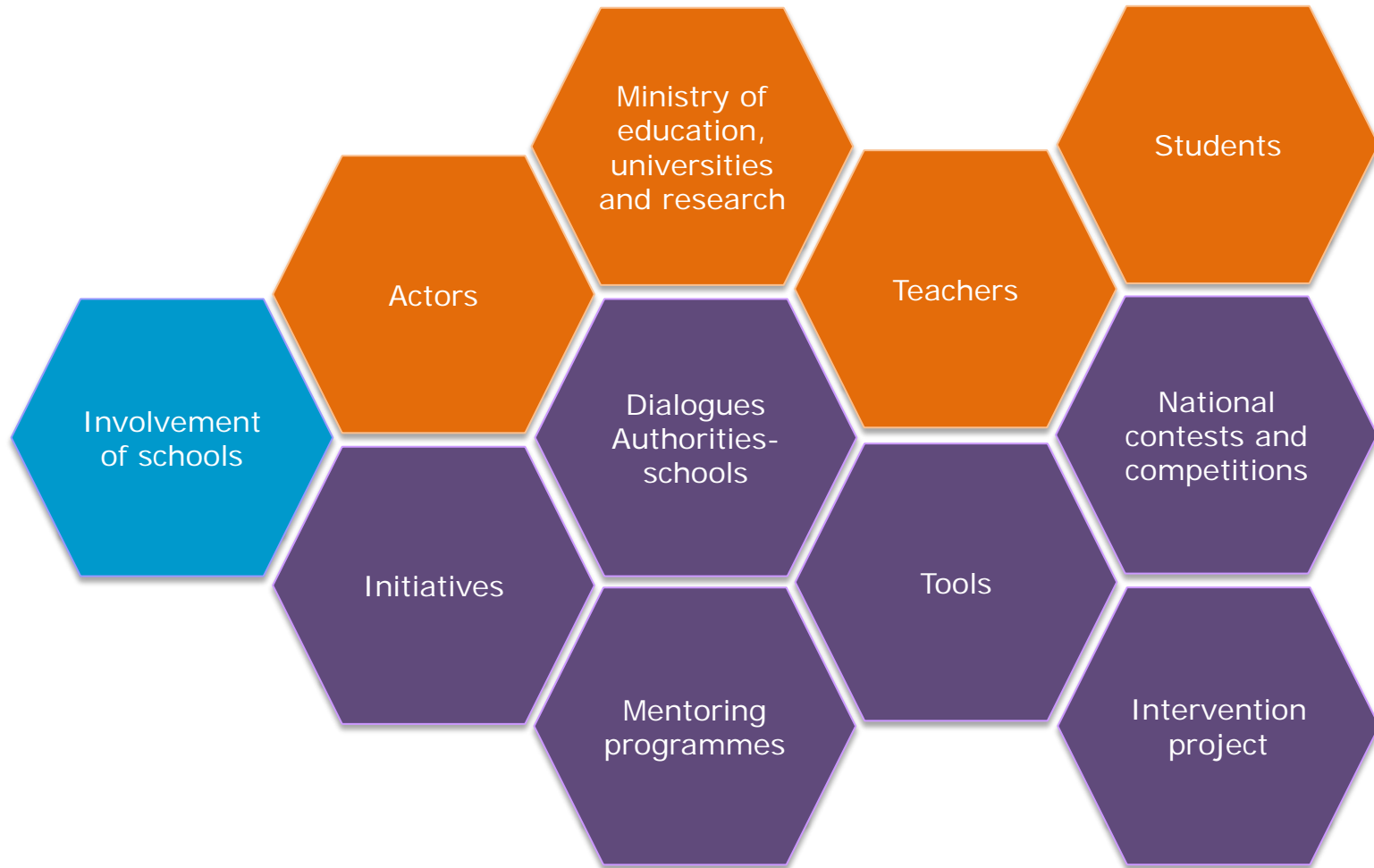


## Schools

- Institutional level
- Upper Secondary
- Lower Secondary
- Elementary (indirectly)



# Involvement of schools: actors and initiatives



# Involvement of schools: initiating the process

## Key initiatives:



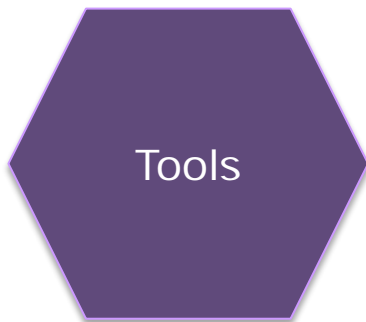
Dialogues  
Authorities-  
Schools

Mentoring  
programmes

- REACH CA meets the Ministry of education, universities and research in 2009
- From policy level to Schools
- REACH CA liaises with school teachers
- Dialogue days in 2011, 2014, 2015
  
- Selection of “initiators”: the REACH-CLP Tutors (2009-2010-2015)
- 1<sup>st</sup> Training for Tutors (2010)
- Dissemination phase by Tutors: development of tools and trainings for teachers and students (2011–2013)
- 2<sup>nd</sup> Training for Tutors (2015): e-learning modules



# Involvement of schools: tools



- Tools developed by REACH and CLP Tutors
- Tools developed by teachers and students

e.g.

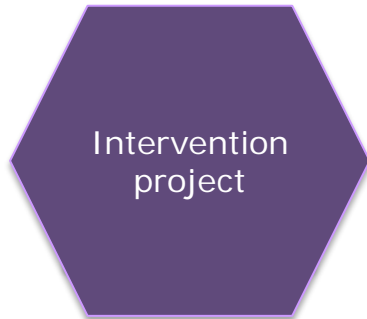
[http://www.elsamorante.gov.it/index.php?option=com\\_content&view=article&id=225:didattica-del-reach-e-del-clp](http://www.elsamorante.gov.it/index.php?option=com_content&view=article&id=225:didattica-del-reach-e-del-clp)

- Existing multimedia tool “alla scoperta di REACH” (“discovering REACH”) developed by the Ministry of environment is used in a national contest for teachers and students

<http://www.minambiente.it/pagina/alla-scoperta-di-reach>

- Upload of the tool into a dedicated information portal for the contest
- n. 133 classes participating in Q1 2015
- 3 prizes (PC, projector, school board)

# Involvement of schools: communication campaign



An initiative by National Institute for environmental protection and research (ISPRA)

Communication campaign on **risk related to human exposure to chemicals**

## Objectives

- Informed students
- Students as medium to spread knowledge

## Methodology

- Survey to assess baseline (level 0)
- 90 minutes class
- Survey to assess level 1

**24 schools** in Rome area

**1.483 students** in the age 15-19y



# Involvement of schools: the national prize competitions (1<sup>st</sup> edition 2011, 2<sup>nd</sup> edition 2014)



An initiative by REACH CA and the WG training and information of REACH national coordination committee

Prize  
competitions  
2<sup>nd</sup> edition  
for students

***Students: «Do you see me?  
Do you understand me? You  
know what to do» (labels).***

## **Subject**

- Information in the label.
- The importance of being informed about the risk of chemicals used in daily life of a citizen to protect human health and environment.

## **Objectives:**

- Students as mediators for the comprehension of REACH and CLP and for the cultural change.

## **Participants:**

Upper secondary school  
Singol student/Group of students

## **Prizes**

- 1<sup>st</sup>: 600 €
- 2<sup>nd</sup>: 450 €
- 3<sup>rd</sup>: 300 €





# Involvement of schools: the national prize competitions (1<sup>st</sup> edition 2011, 2<sup>nd</sup> edition 2014)



An initiative by REACH CA and the WG training and information of REACH national coordination committee



***Teachers: «You can change!  
The label can't! »***

## Subject

- Promote the knowledge of innovation introduced by REACH and CLP.
- Reflect on the common behavior in the use of chemicals in daily life

## Objectives

- Support the Schools in the development of new education pathways to achieve responsible citizens
- Strengthen scientific programmes of studies

## Participants

Teachers of upper and lower secondary school (Single teacher/teacher with a group of students)

## Prizes

- 1<sup>st</sup>: 1000 €
- 2<sup>nd</sup>: 850 €
- 3<sup>rd</sup>: 550 €





# The experience of national prize competitions for teachers and students: the winners

2° edition (2014): n. 7 schools awarded

**Students:** «Do you see me? Do you understand me? You know what to do» (labels).

**Teachers:** «You can change! The label can't! »

“the labels: the unknowns”  
L.scientifico A. Aleardi (VR)



“Clear label, safe label”  
L.Linguistico Verolli (FR)



“Special agents GHS07...code for the mission”  
I.C. POLO 2 VEGLIE (Lecce)



“REACH e CLP: the GINORI CONTI changes...and you?”  
I.T. “Ginori Conti” (FI)



“Clear and present danger”  
I.I.S. “C. N. Rosselli” Aprilia (LT)



“Chemistry at home. How to live with”  
L. S. “E.FERMI” (BO)



“Smell the lethal perfume”  
ITIS Cannizzaro (CT)



Students

Teachers

# The experience of national prize competitions for teachers and students: one of the winners

[https://www.youtube.com/watch?v=mU9xhgGHjNg&feature=iv&src\\_vid=VWTRZB-DgNM&annotation\\_id=annotation\\_681421341#t=6.5s](https://www.youtube.com/watch?v=mU9xhgGHjNg&feature=iv&src_vid=VWTRZB-DgNM&annotation_id=annotation_681421341#t=6.5s)

“Chemistry at home. How to live with”  
L. S. “E.FERMI” (BO)



# The experience of national prize competitions: a new learning process



*L.scientifico A. Aleardi (VR)*

*“...growing  
enthusiasm for a  
new way of  
learning”*



**"didattica del REACH e del CLP" Seconda edizione.  
Progetto: Il Ginori Conti  
cambia...e tu?**

Con un **click** del mouse sulla **"slider"** puoi leggere il contenuto al suo interno

- ▶ 1 REACH e CLP Amici dell'uomo e dell'ambiente
- ▶ 2 Fai il Quiz e verifica le tue conoscenze sul CLP
- ▶ 3 Aspetti Bioetici
- ▶ 4 Prodotti didattici e di informazione/formazione
- ▶ 5 Reach Your goals in English

*“The active role of  
students is a driver for  
a new learning  
process”*

I.T. “Ginori Conti” (FI)  
<http://www.elsamorante.gov.it>

# Active role of teachers & students

## Dissemination

- Lessons (different language-different target audience-different subjects)
- Video tutorials
- Cataloging information

## Students teaching to other students

- Play the role of teachers
- Movies
- Semantic games for children

## Sinergy with the territory

- Interviews
- Leaflets



# New initiative

## Involvement of a Distribution chain: 1<sup>st</sup> information campaign

Agreement between the Ministry of environment and Leroy Merlin distribution chain concerning  
“Information on chemicals for employees and customers”

Objectives:

- inform citizens on REACH e CLP
- safe use knowledge
- right to know

Among the activities:

- elaboration and distribution of booklets on specific product/product category containing chemicals
- creative laboratories at the stores



*Ministero della salute*



# Future perspectives

- Maintain the commitment to support the cultural mediators (REACH and CLP Tutors)
- Encourage contact between territory (local authorities, enterprises) and Schools
- Support the update of communication tools used at school level (e.g. in laboratories of technical institutes)
- Promote dialogue between authorities and Schools (e.g. also sector legislation authorities, Customs)
- Exploit the experience gained in raising awareness activities at school level within ECHA EHS project-support to end users
- Share the experiences with other MSs





*Liceo Linguistico di Veroli (Frosinone, Italy)*

# Thank you!

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