



IZSAM G. CAPORALE
TERAMO

Science Education and Social Networks

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New Perspectives
in Science
Education

International Conference
**NEW PERSPECTIVES
in SCIENCE EDUCATION**



IZS Abruzzo and Molise



- We are a scientific body, founded in 1941, belonging to the National Public Health Service. We support the Italian Ministry of Health and the Abruzzo and Molise Regions.
- Our mission is:
to ensure human health, providing appropriate response to public health needs, through scientific knowledge and expertise on food safety, animal health and welfare, control and prevention of transmittable animal diseases, including zoonoses, support to food production.

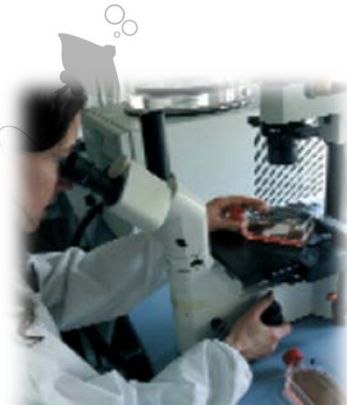


We are here





Our national expertise



 **CESME**
Centro di Riferenza Nazionale



 **COVEPI**
Centro di Riferenza Nazionale



 **Brucellosi**
Centro di Riferenza Nazionale



 **Campylobacter**
Laboratorio Nazionale di Riferimento



 **PCDD/F e PCB**
Laboratorio Nazionale di Riferimento



 **Listeria monocytogenes**
Laboratorio Nazionale di Riferimento



 **IUVENE**
Centro di Riferenza Nazionale





Our international expertise





We are the heart of the OIE Collaborating Centre for Veterinary Training, Epidemiology, Food safety and Animal Welfare



Teramo



Torre di Cerrano

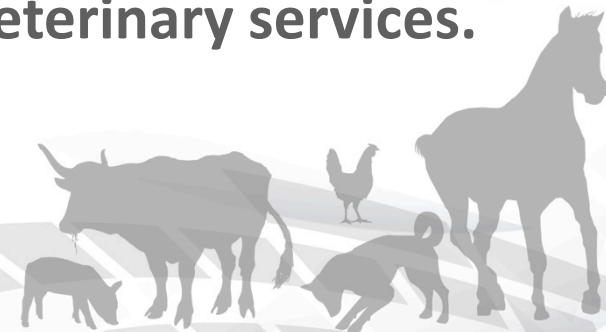


20 years of international training activities



In the last two decades, IZSAM has invested consistently on:

testing innovative training methods,
developing learning programmes and
validating training management models
able to respond to the
constantly increasing demand for capacity
building
at international level,
mainly for official veterinary services.



Vocational training and Health education Programs



Since nineties' IZSAM delivered health education programs devoted to primary schools' students on different issues concerning food safety, human-animal interaction, environment



Digital Natives at work: the context



In 2015 a national reform of the school education system (Law n. 107/2015) entered into force in Italy inspired by the European policies on lifelong learning.

In 2015-2016, IZSAM developed with 5 upper secondary schools of Teramo Province a vocational education project coherent with the priorities set by the schools and the Institute mandate.



The project objectives

The project lasts **3 years**.

72 students between 15 and 17 years old were involved.

Specific objectives:

- approach the main veterinary scientific issues;
- experience modern communication strategies;
- use specific narrative techniques;
- use social networks and applications to disseminate scientific information;
- be familiar with a professional scientific environment;
- practice their attitudes, skills and abilities;
- assess their educational and professional life plan.



«The digital science» and «Science is life»

The traineeship had a length of **50 hours** carried out through:

- experts' lessons and interviews
- visits at the IZSAM laboratories
- hands-on work experiences such as communication activities using social media and web tools.



The students were divided into two groups
“The digital science” and “Science is life”



The first output: groups' logos



"The digital science" Logo



"Science is life" Logo



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ATTIVITÀ **3**

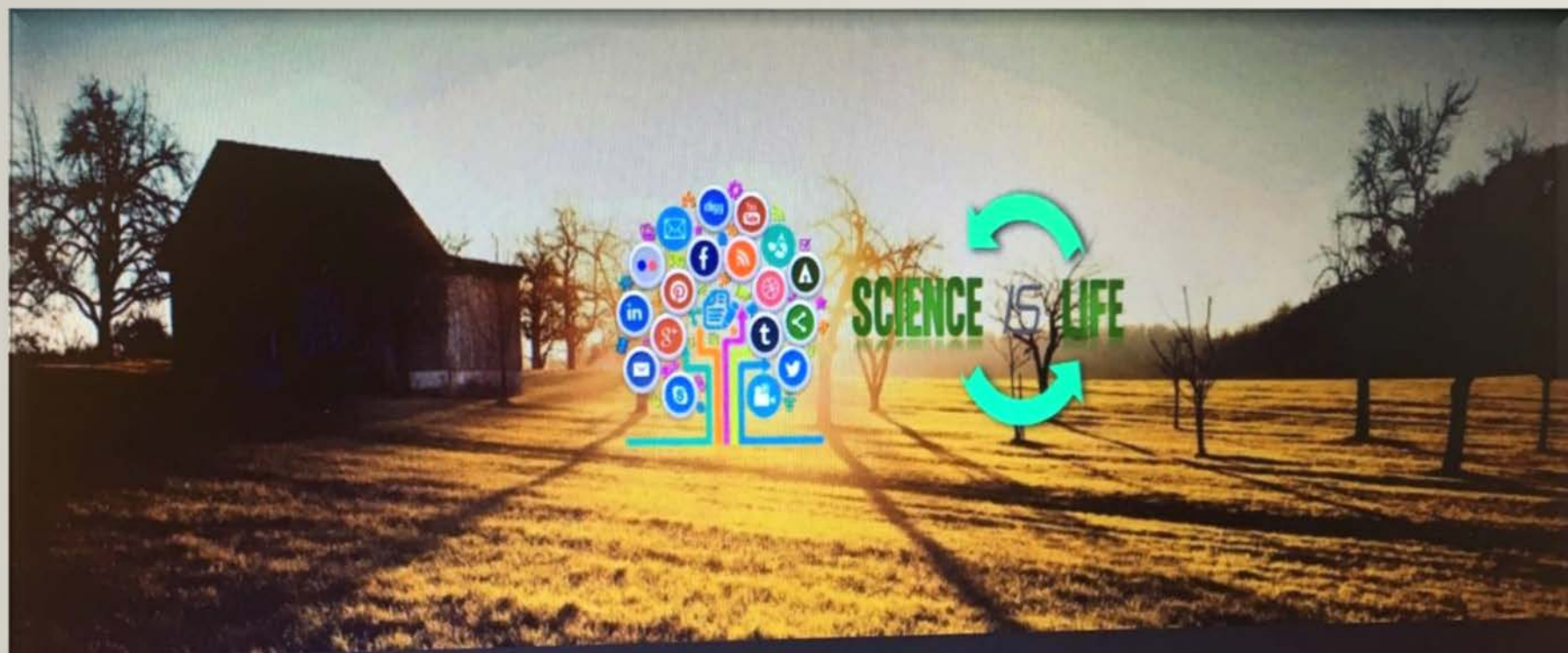
INSIGHTS **3**



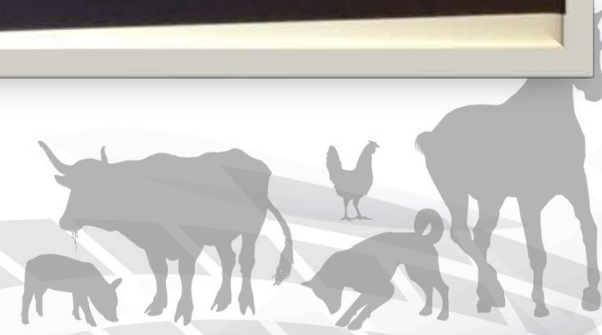
La scienza digitale

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Project monitoring

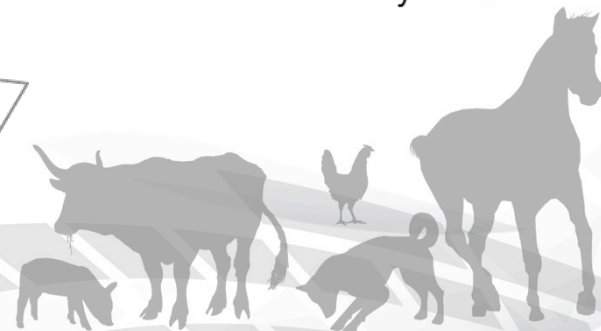
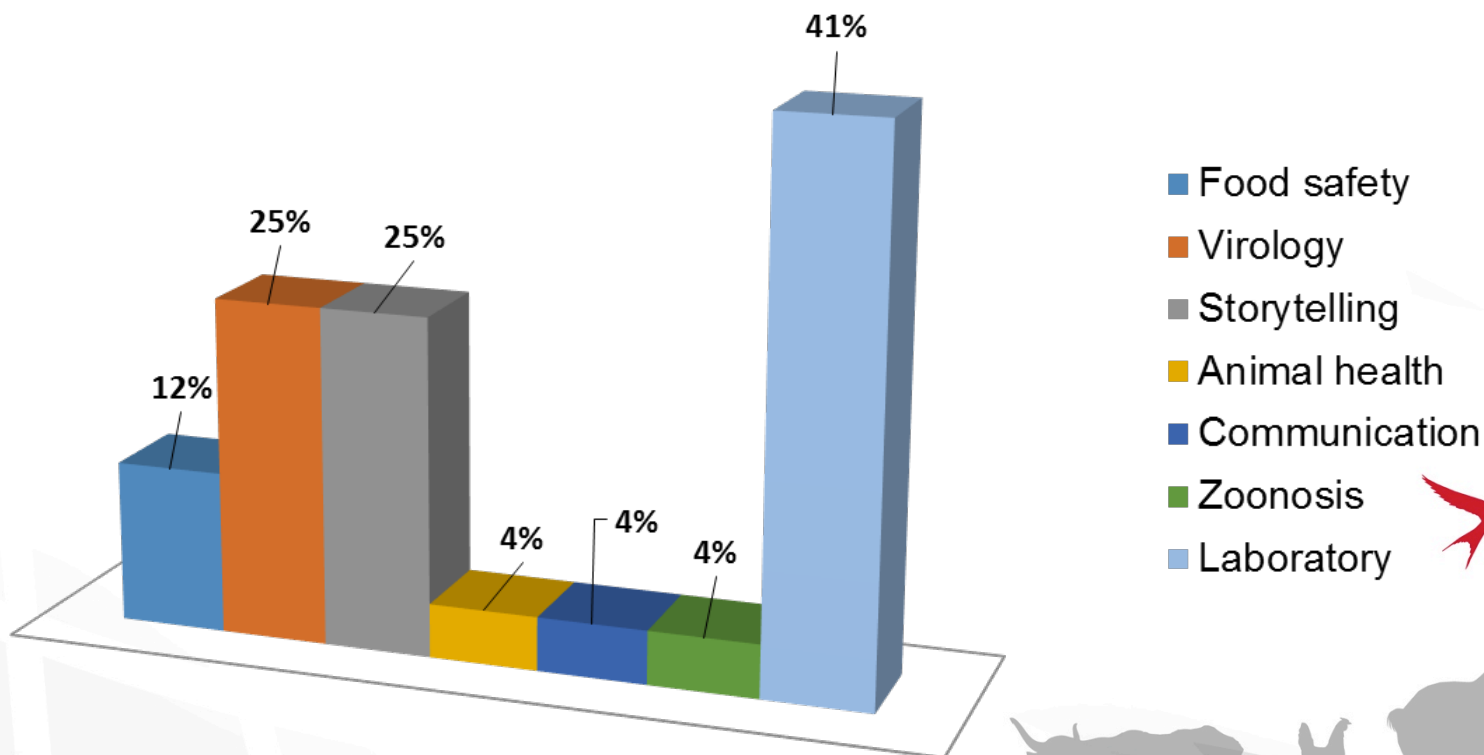
Area	Elements
Knowledge	<p>Technical-scientific aspects</p> <p>Communication</p>
Skills	<ul style="list-style-type: none"> • Use of WEB 2.0 communication techniques • Production of dissemination materials through digital storytelling techniques • Management of social network pages (Facebook) • Blog creation • Dissemination of scientific contents using a simple language
Transversal skills	<p>Understanding the professional contexts and adapt behaviours; Identifying and respecting hierarchy within the institution; Time and resource management Team - working</p> <p>Communication and control of emotions Problem solving</p>

Skill assessment areas

Results

- Total of **1,569** people reached the students with the published posts;
- **215** people reached the page with the video 'virology for passion', **90** views in a week;
- **97** people reached the students with photos of the laboratories;
- **175** people reached the page with the post concerning the presentation of the project;
- **130**  to the page;
- **137**  to the posts.

Students' preferred topics



Conclusions

The revision system used by the project experts



facilitated progressive learning



led to a loss in terms
of immediacy

Further studies are needed to measure impact and target response and provide additional elements to improve the vocational education experience.





Thanks for your attention

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