Status of a cross-checked database of resources, online demos and virtual labs for radiation protection training

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Background

- The recent pandemic has radically changed the way we deliver education and training
- Online teaching continues to be expected at some level
- Emphasis is placed on the interactive aspects of online training
- A key goal will be integrating theory lessons with "practical" laboratory sessions
- Educator-trainee interactions, as well as independent training, are a focus area of development

Example of entry-level online resource

Methods

We are a group of collaborating educators and trainers contributing to the EUTERP scope by searching, examining and utilizing online resources, such as demos and virtual labs for radiation protection training.
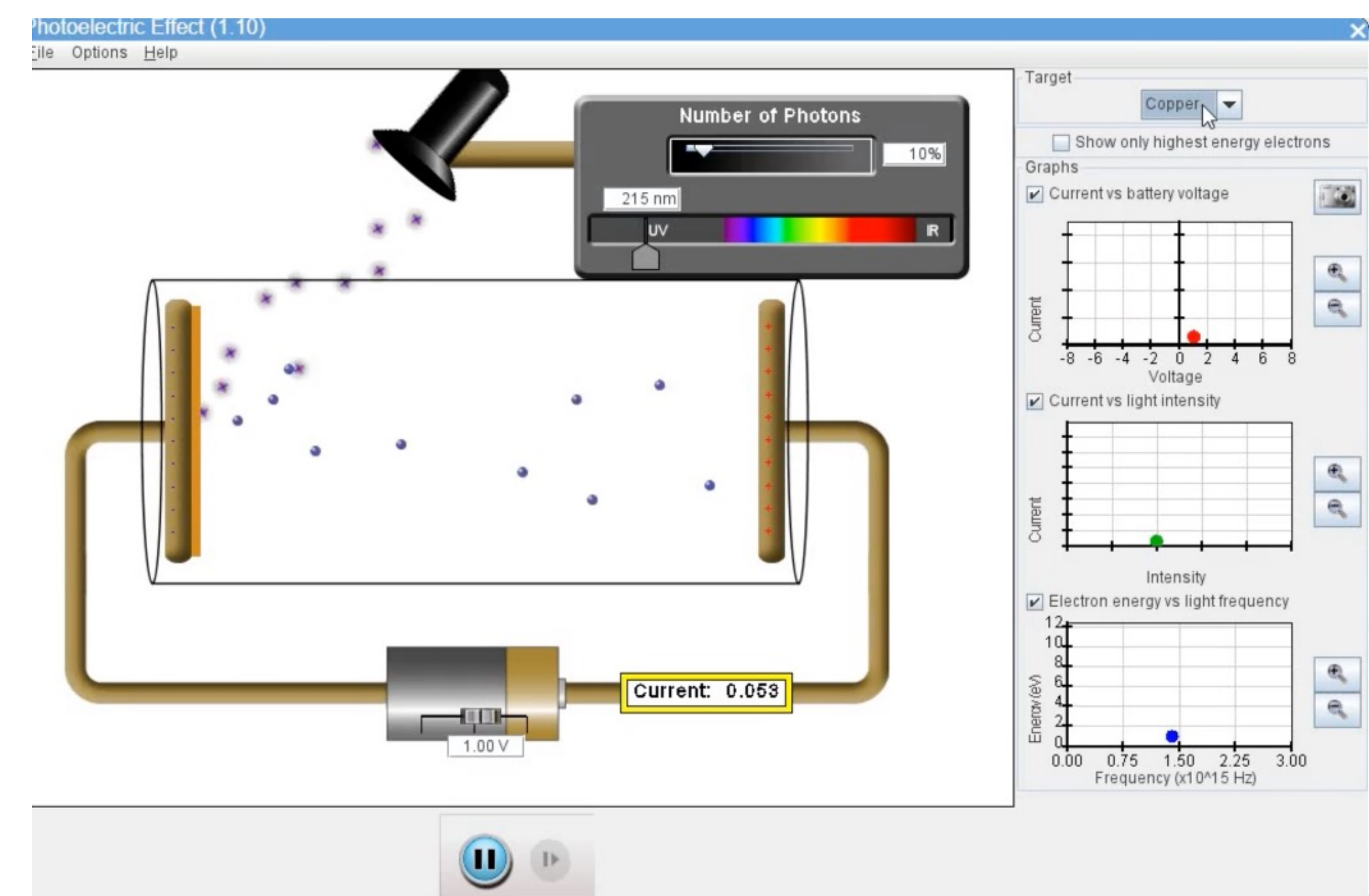
We focus on publicly available resources at no cost to the end users, our students and trainees. The initial screening is carried out by the authors themselves, who identify and cross-check promising resources. The latter are then "road-tested" by our trainees and students, who provide feedback in terms of user-friendliness, learning curve and educational value.

These tools should not only be adequate from a didactic point of view, but also appealing to our demanding generations of media-savvy students.
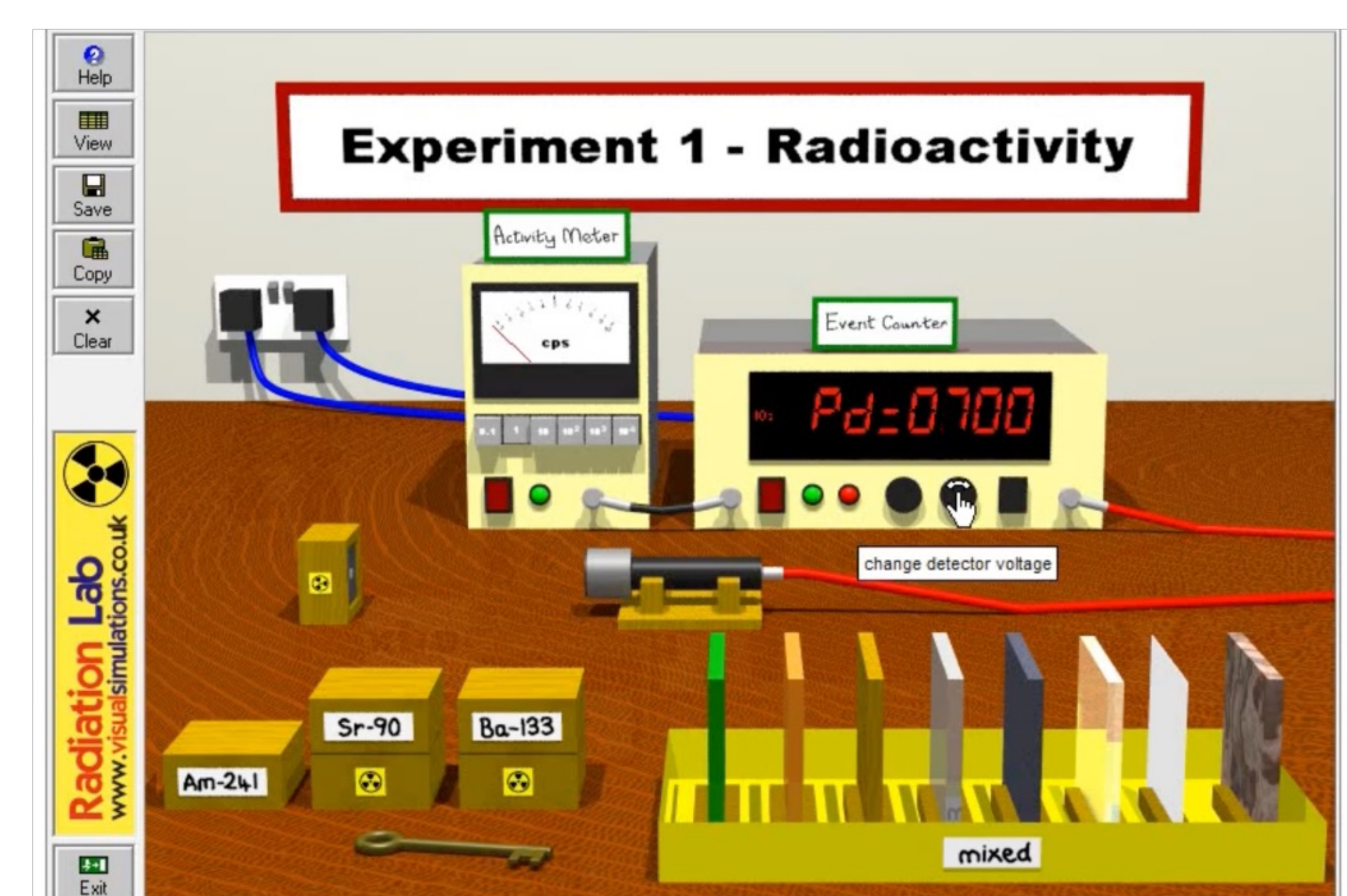
No claim is made that the presented set of resources will be comprehensive and no attempt is made to rank the resources themselves. Rather, this is meant to be the description of an effort that is open to and in need for feedback and contributions from our community.

Example of intermediate-level online resource

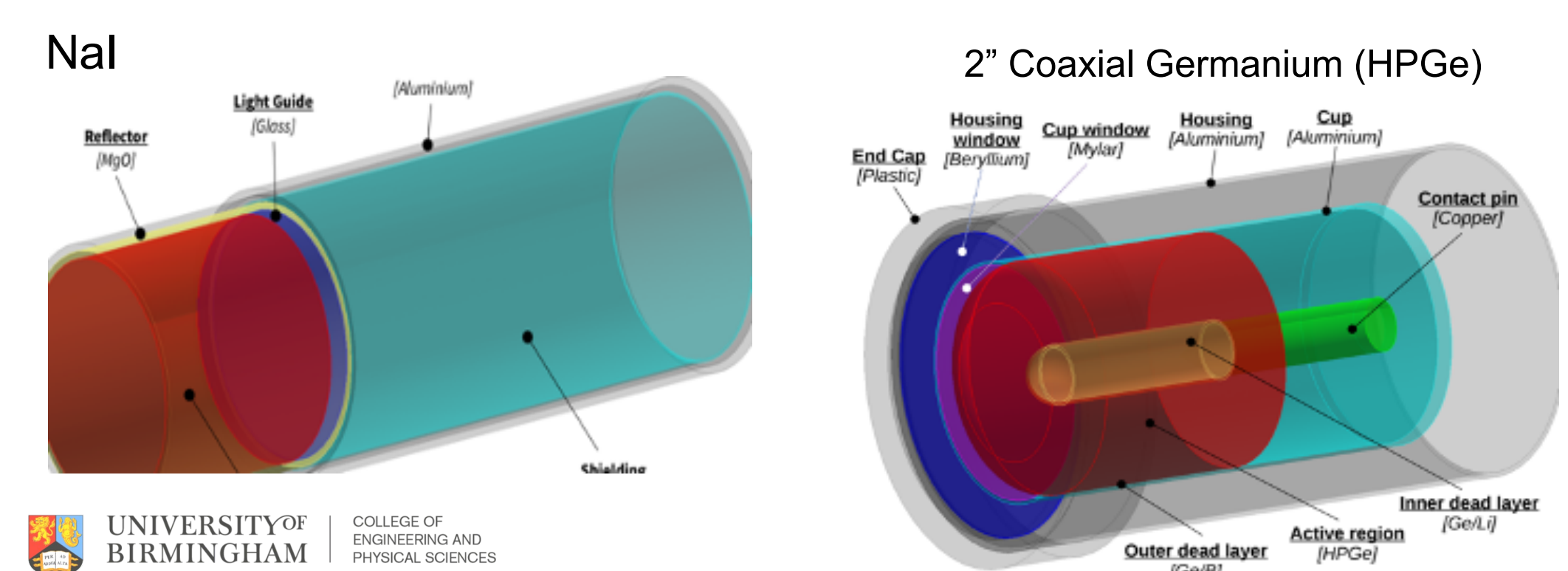Example of advanced-level online resource

Prospects

- Expand collaboration to interested parties
- Refine evaluation criteria
- Create a database of evaluated resources
- Approach site developers with feedback/suggestions
- Address needs/interests of universities, hospitals, radiation safety officers, first responders, government agencies
- Develop proposals seeking EC funding
- Connect with software houses for the development of highly realistic virtual laboratories (including 3D scenarios, augmented reality)
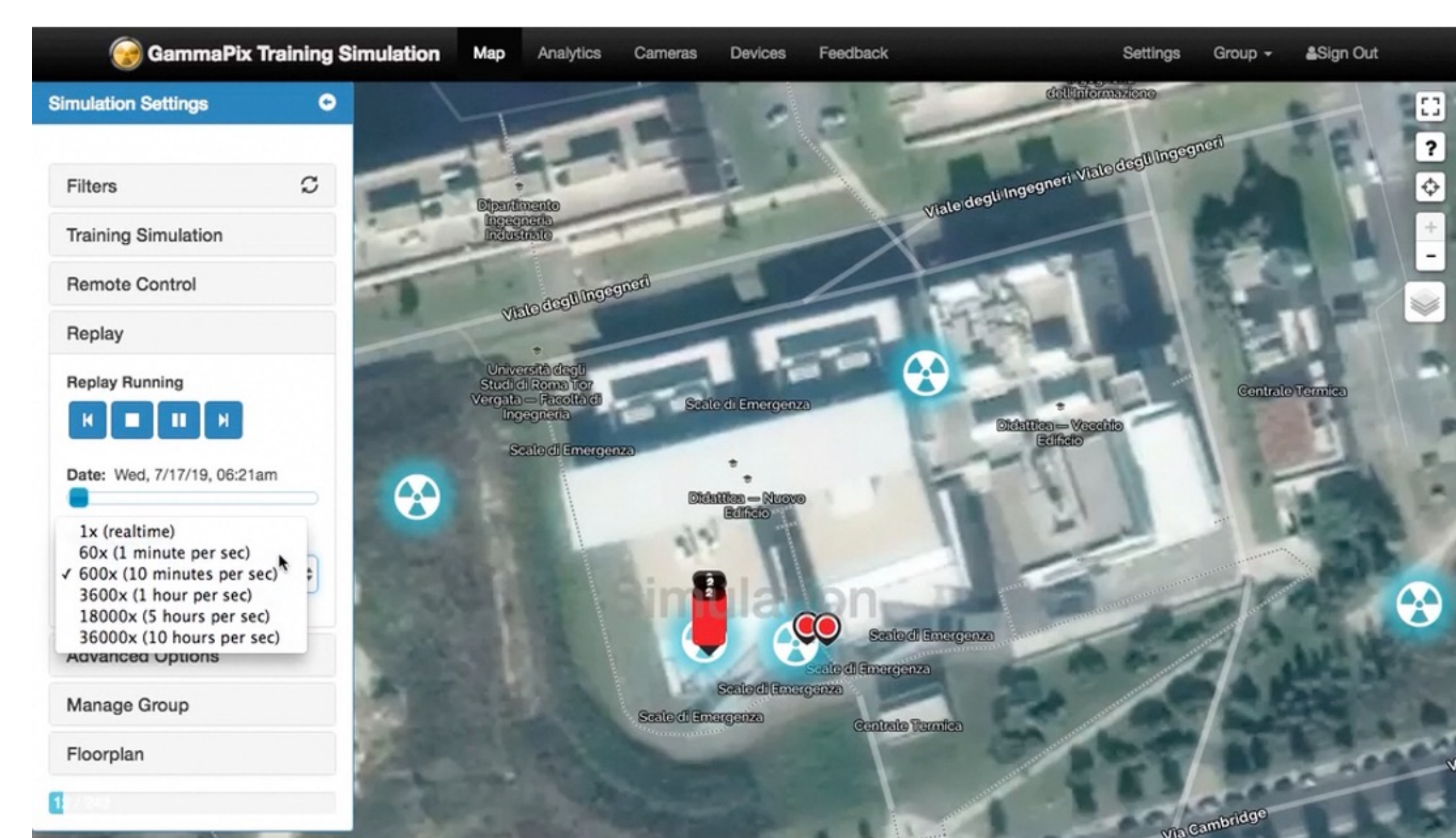

Example of online virtual training resource