**Living, Learning Laboratory Resources:**

Tedx talk on sustainability and higher education from Dr. John Robinson from the University of British Columbia: [http://www.youtube.com/watch?v=VbGYHX9hsKQ](http://www.youtube.com/watch?v=VbGYHX9hsKQ)


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*AASHE: Campus Sustainability Living Learning Laboratory Workshop June 7-9 @ Portland State University, Portland, OR*

Fletcher Beaudoin, Institute for Sustainable Solutions, Portland State University & Katja Brundiers, School of Sustainability, Arizona State University
2. Design Criteria for Living, Learning Laboratory Projects at Portland State University

How we define a ‘living learning laboratory’ at PSU?
A living learning laboratory is a given place where problem-based teaching, research, and applied work combine to develop actionable solutions that make that place more sustainable. For PSU’s campus living lab, this requires a joint commitment from students, faculty, staff, and local residents to design, implement, adapt, and teach new approaches that address issues of equity, economy, and ecology.

How do we define sustainability at PSU?
Sustainability is a concept that considers the interaction of humans, both with each other and with the natural environment, and is guided by the objective of improving the long-term health of social, economic, and environmental systems.

Living learning lab projects strive to meet these criteria:

- **Sustainability:** Aligns with PSU’s vision for sustainability to implement lasting change to make a given place more resource-efficient, equitable, and ecologically balanced, while acknowledging a resource-finite world.

- **Fit:** Advances campus and neighborhood priorities.

- **Place:** Reflects an awareness of history and context within the campus and surrounding area.

- **Scale:** Project outcomes are designed in a manner that would be useful and applicable to other contexts and locations.

- **Collaborative action:** Fosters deep engagement with on-campus and off-campus partners, focusing on establishing an environment of co-learning.

- **Monitoring, evaluation, and continuous improvement:** Mechanisms are established to monitor progress and evaluate impact overtime.

- **Educational design:** The project is designed with clear learning outcomes for students in mind.
Resources mentioned on the fieldtrips

**ASU, Arizona State University**
ASU campus metabolism: [http://cm.asu.edu/](http://cm.asu.edu/)
ASU Sustainability Initiatives Revolving Fund: [https://cfo.asu.edu/sirf](https://cfo.asu.edu/sirf)
ASU SustainabilityConnect: [https://sustainabilityconnect.asu.edu/](https://sustainabilityconnect.asu.edu/)

**PSU, Portland State University**
PSU Community Environmental Services: http://www.pdx.edu/ces/home

**UBC, University of British Columbia,**
Talk from John Robinson, Associate Provost, Sustainability | UBC Sustainability Initiative: [http://www.youtube.com/watch?v=VbGYHX9hskQ](http://www.youtube.com/watch?v=VbGYHX9hskQ)
UBC Sustainability Initiative (USI): [www.sustain.ubc.ca](http://www.sustain.ubc.ca)
Centre for Interactive research on Sustainability (CIRS): [www.cirs.ubc.ca](http://www.cirs.ubc.ca)
SEEDS Program – SEEDS Library: [http://www.sustain.ubc.ca/courses-teaching/seeds/seeds-library](http://www.sustain.ubc.ca/courses-teaching/seeds/seeds-library)

**UCSC: University of California, Santa Cruz**
The laboratories, student assessment metrics, and content developed in the paper presented by Bacon et al., 2011 are disseminated online and available at: [http://seed.soe.ucsc.edu](http://seed.soe.ucsc.edu). This includes course frameworks and lecture content, labs that seek to enrich socio-technical literacy, and guides for project development.