

OERu's FOSS NGDLE For Executive Leadership Teams



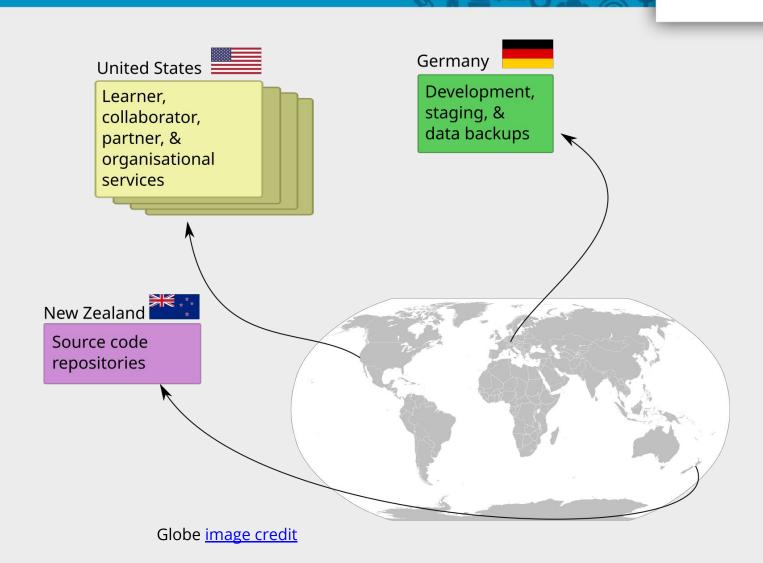
Learning on the internet



- Best way of supporting learners to develop digital and other learning literacies?
 - Use the same technologies they need to build digital fluencies for learning.
- Learning on the internet
 - is less constrained than via an LMS
 - enables collaborative content creation (even across institutions)
 - learners control their own work (data sovereignty)
 - learners use the technologies and practices of the real digital world

OERu's global infrastructure





Learner-facing 'Tech Wheel'





Our FOSS NGDLE tech mix

















































































Benefits of diversity

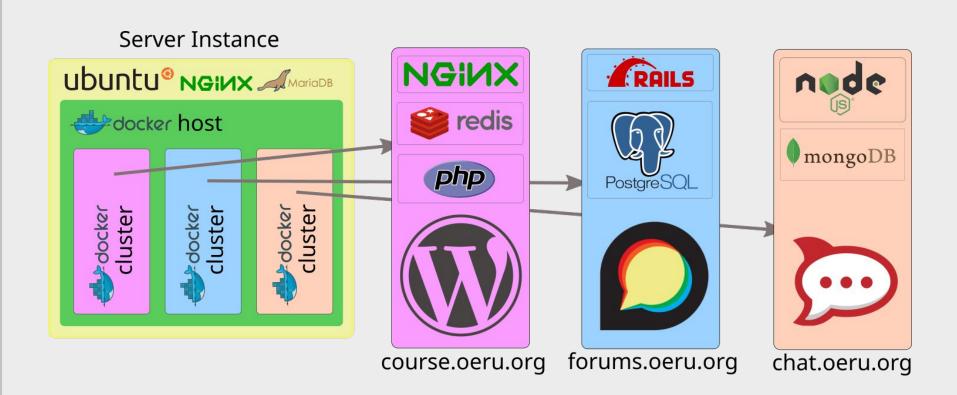




- Diversity makes digital ecosystems more resilient
- Our digital ecosystem is diverse, both in terms of actual software and hardware, but even more critically, with regard to suppliers.
- We have voluntary dependences on a broad range of open communities or commodity service providers, rather than contractual dependencies on a few proprietary corporations.
- We are, to the extent we want to be, technologically self-reliant.
- We can be agents of natural selection in our digital world.
- The challenge: diversity can create complexity.

Docker: indispensable





Docker: writing recipes





Using docker to manage FOSS complexity

































Docker: share & replicate >



tech.oeru.org

The OERu tech-transfer blog providing howtos & overviews of our Docker recipes & our custom FOSS code.





git.oeru.org

The OERu software repository for others to use, adapt, contribute to, & learn from our FOSS code.





Strategic development 1



Automating Courseware Deployment

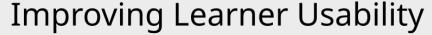


Harvesting Distributed Learner Interaction



Strategic development 2











Automating Learner Administration







Cost & return on investment



- Annual IT costs
 - Fixed costs: infrastructure @ < \$4000 + 1 Full time IT person. Wow.
 - Per-learner: ~\$0 variable cost
 - Proprietary software licenses? \$180 (Zoom)
- ROI maximised by
 - investing in targeted strategic software development
 - sharing maintenance with FOSS communities
- Four tech selection criteria
 - commodity hosting
 - FOSS for SaaS
 - No per-seat cost component
 - account for internal staff time in TCO

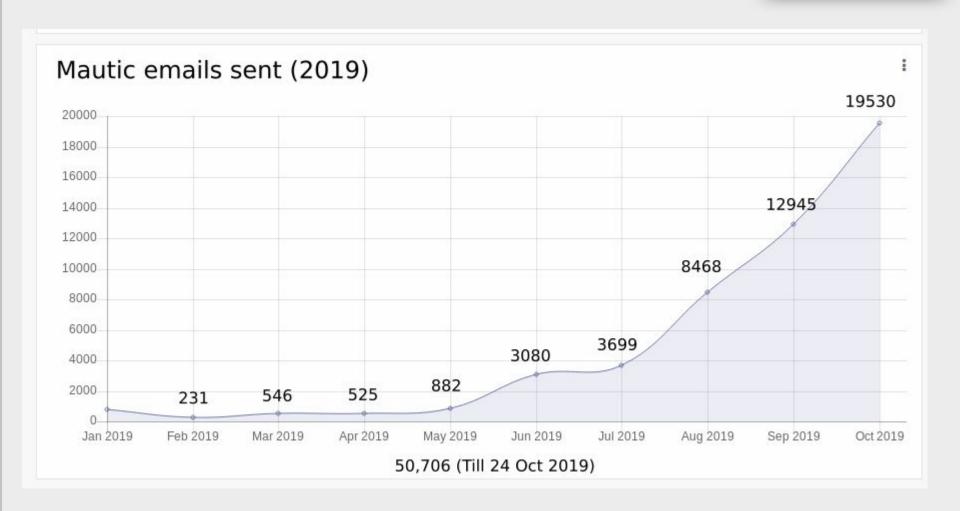


Image by Steve Buissinne from Pixabay

Case study: Mautic

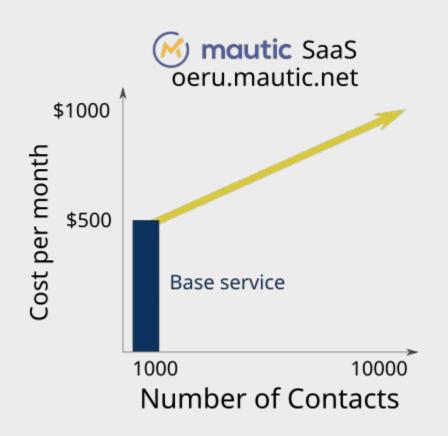


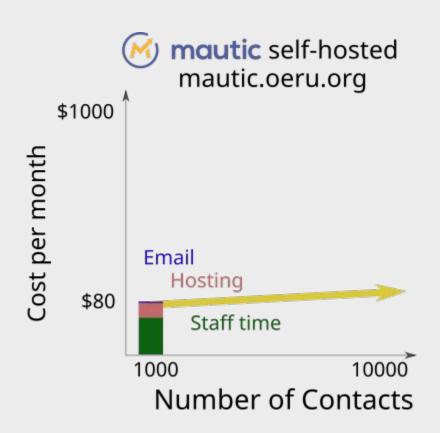




Mautic cost comparison







Advantages for learners



Our NGDLE has multiple advantages for learners

- Ability to navigate own way through their learning
- Development of self-directed skills
- Cost savings (e.g. textbooks)
- Variety of dynamic, open materials (potentially in different languages)
- All courses are 'mobile-friendly'
- Enables lifelong learning
- Learners
 - control their own data during and after study
 - are never forced to waive rights to use technology (no 'I ACCEPT')

Pedagogical opportunities



Opportunities for teaching staff and learning designers include

- Identifying, modifying, and developing resources
- Building digital literacy skills including
 - wiki writing
 - web writing
 - using FOSS tools
 - finding open content
- Understanding open licences and the use of OER
- Embracing opportunities for collaboration and innovation
- Enabling cost efficiencies
- Experiencing and applying 'free-range learning'

Conclusion





The OERu's NGDLE offers

- the opportunity to pioneer new approaches
 - Building a rich infrastructure for learners and collaborators
 - Implementing a FOSS end-to-end service
 - Potential to scale up to facilitate learners across the world
- Advantages both technological and pedagogical
- Incredible cost-effectiveness and adaptability

Our NGDLE experience challenges the status quo for IT infrastructure used by most HE institutions.

It demonstrates the viability of a new, open approach.

More info: OERu.org

This talk online: oer.nz/ngdle19

Our FOSS code: git.oeru.org

Tech blog: tech.oeru.org



