

NGDLE: The Value of the Ecosystem

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"Our evolutionary lineage is marked by mastery of change.



In our time, the pace is quickening.”

Carl Sagan

What's the NGDLE?

“What comes next must be informed by the new **learning-centered model** that increasingly characterizes higher education practice (hence *next generation*). It must of course be **digital**, given that digital technology has become a component of virtually all teaching and learning practice. It must be **about learning**, since learning ties together learner and instructor. Finally, it must be an environment or ecosystem—**a dynamic, interconnected, ever-evolving community of learners, instructors, tools, and content.**”

Educause, ELI Paper, April 2015

NGDLE Architecture

INSTRUCTURE



- collection of IT systems
- full adherence to standards
- supports personalization
- cloud-based
- mash-up approach

Applying the Lego Model...

INSTRUCTURE



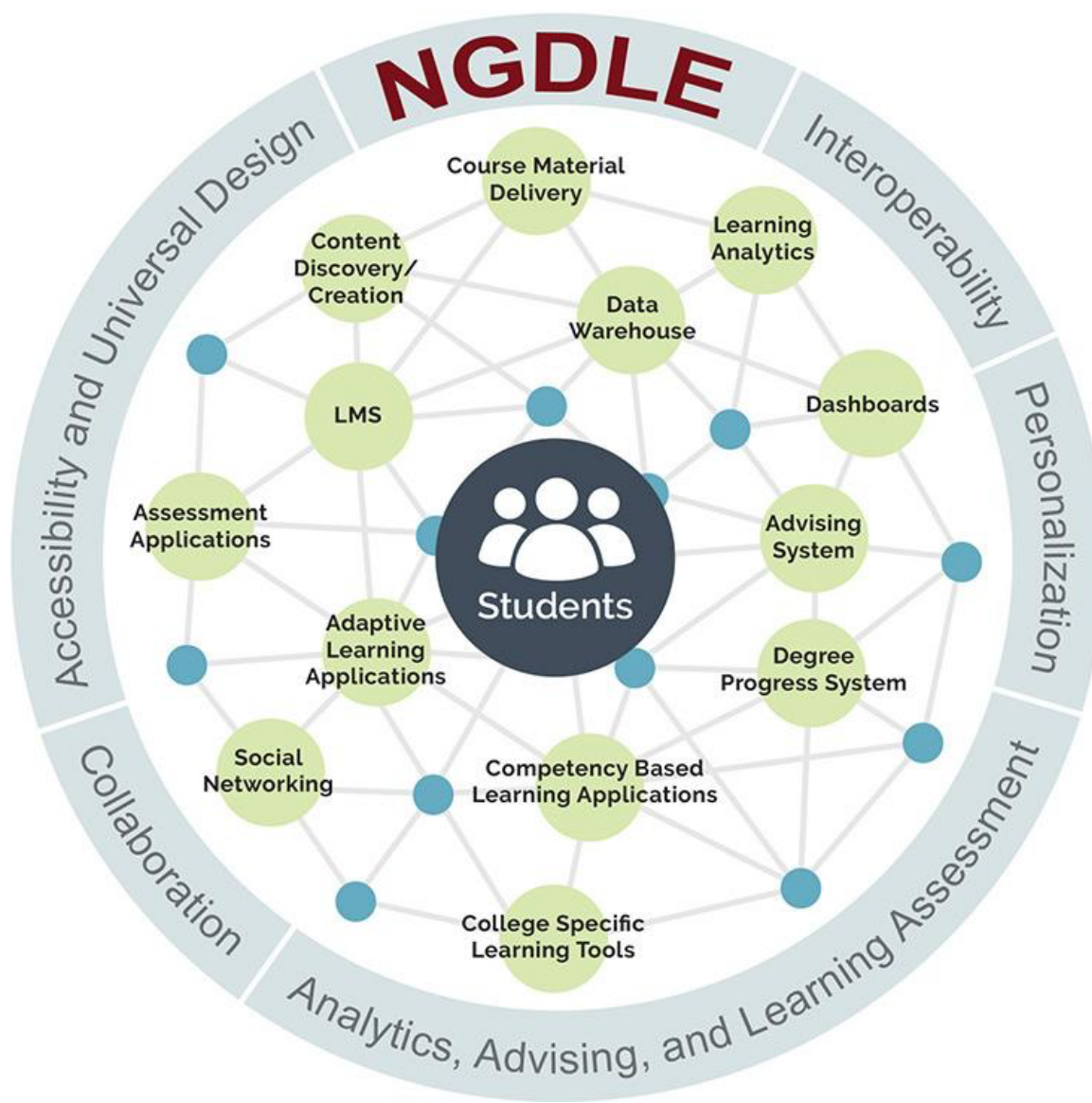
“...would result in a toolbox of applications, content, and platforms that could be assembled in custom ways.”

Educause, ELI Paper, April 2015

NGDLE Five Domains of Core Functionality

INSTRUCTURE

1. Interoperability and integration
2. Personalization
3. Analytics, advising, and learning assessment
4. Collaboration
5. Accessibility and universal design



<http://er.educause.edu/articles/2017/7/the-ngdle-we-are-the-architects>

“It is becoming progressively easier for many users to get precisely what they want by designing it for themselves.”

— Eric von Hippel, *Democratizing Innovation*



“Lego” by Risqi Ario. CC By-NC on Flickr

“Full Adherence to Standards”

INSTRUCTURE

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LTI Advantage
Caliper
CASE
eRoster & LIS
Badges
and more



What if? (User Story #1)

Institution Goal: Ensure students are more fully engaged in their learning, especially outside of the formal course setting, in order to increase student success.

Ecosystem User Story: Students easily utilize interactive content and collaboration tools within a VLE to support highly effective online learning.

Standards: LTI Advantage & Open Badges

What if? (User Story #2)

Institution Goal: Student success needs to be better understood across the institution, so that intervention methods and personalized support services can be implemented.

Ecosystem User Story: Institutions have simplified and collective access to valuable student learning data from multiple technologies for deeper research and analysis.

Standards: Caliper & CASE

What if? (User Story #3)

Institution Goal: Faculty are better informed on student success so they can address potential challenges in a more timely fashion.

Ecosystem User Story: Dashboards embedded in the VLE and other technologies demonstrate student progress to faculty in as close to real-time as possible.

Standards: LTI Advantage, Caliper, CASE

Where do we go next?

INSTRUCTURE



- user stories
- active participation
- strong focus on what matters
- foster innovation