Towards a digital learning hub:
Upgrading the university LMS «StudyNet»

eduhub days 2018
February 1st, Lucerne
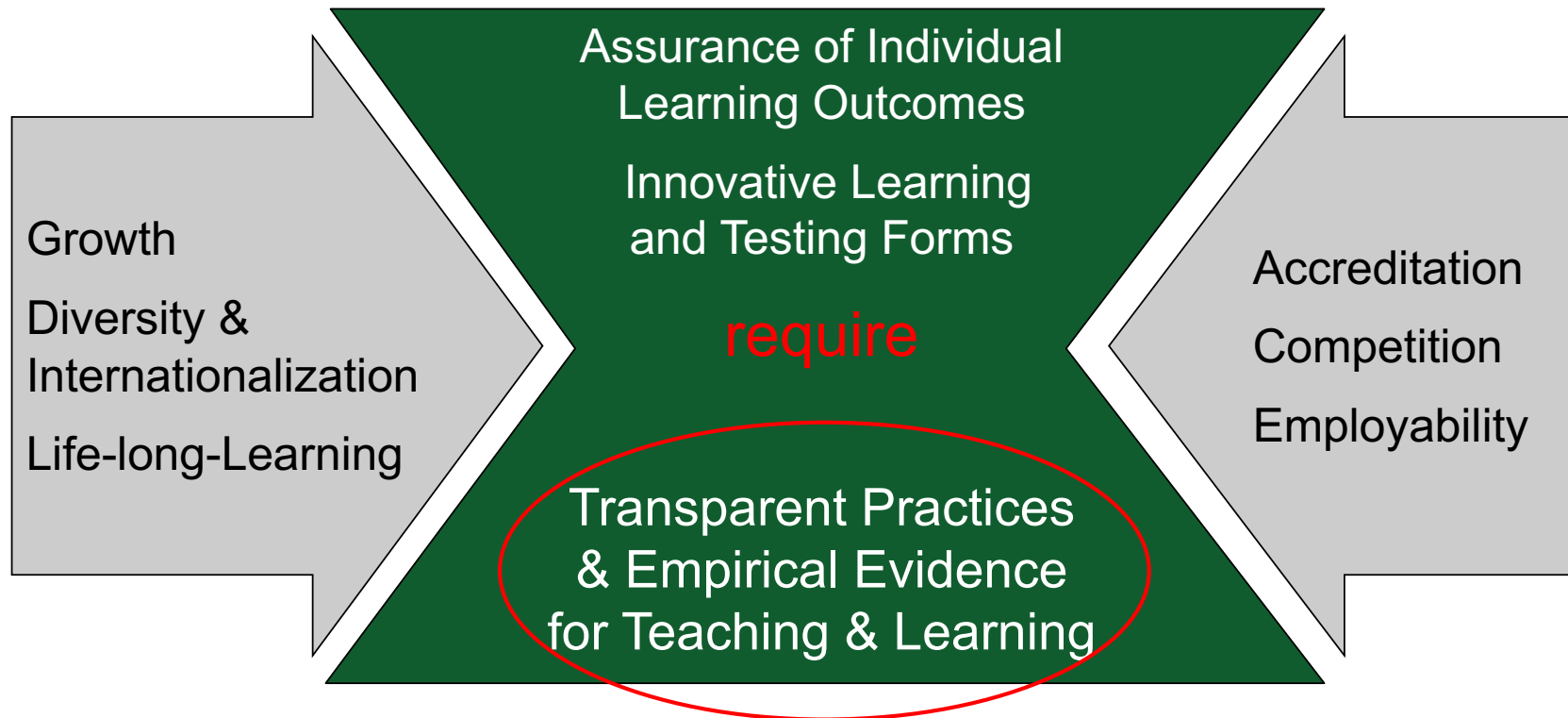
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Higher Education Institutions are increasingly responsible for facilitating student success and optimal learning outcomes.
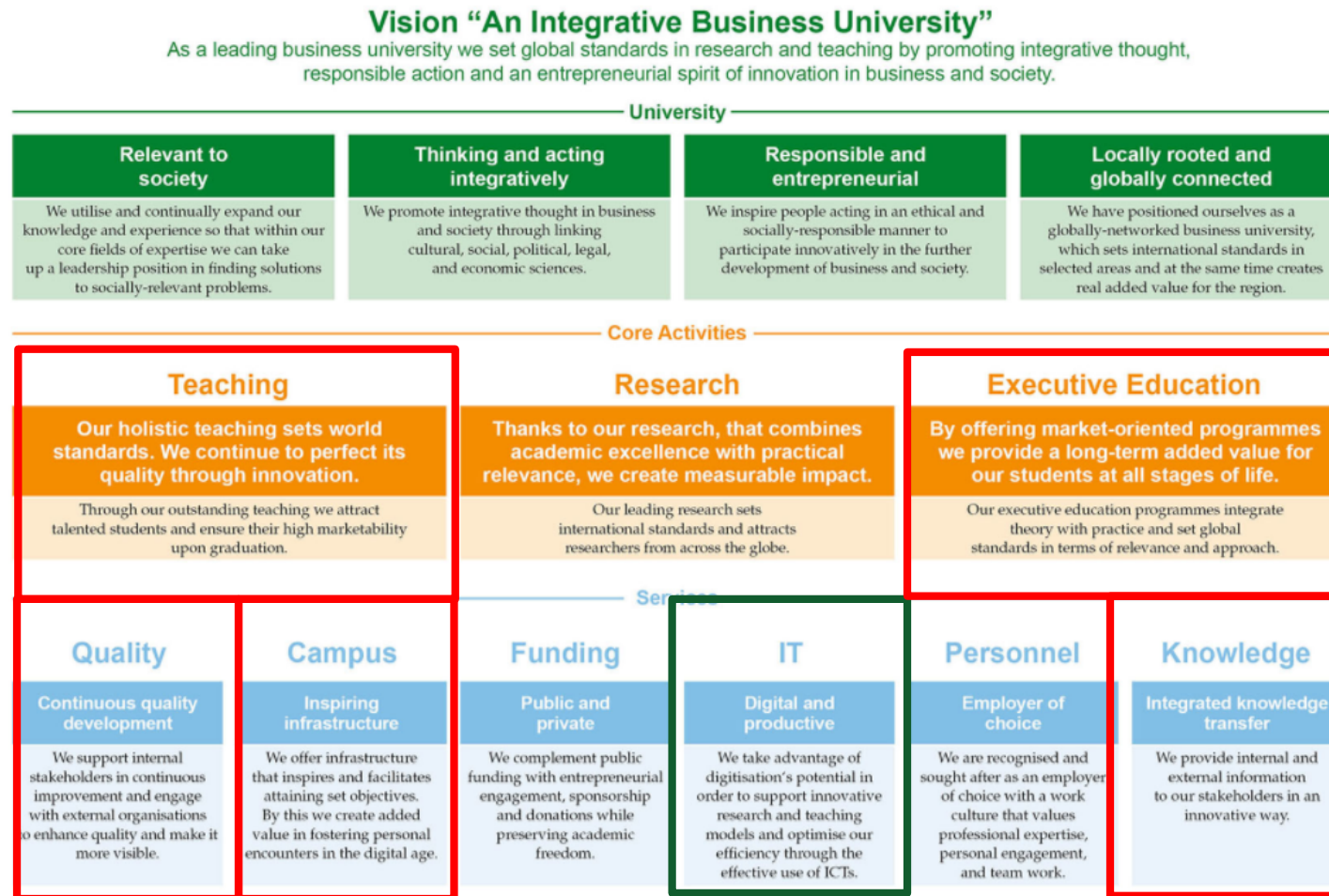
EXTERNAL PRESSURES ON HEI TEACHING & LEARNING STRATEGY

Growth

Diversity & Internationalization

Life-long-Learning

Assurance of Individual Learning Outcomes

Innovative Learning and Testing Forms

require

Transparent Practices & Empirical Evidence for Teaching & Learning

Accreditation

Competition

Employability

Learning technologies contribute to quality assurance.
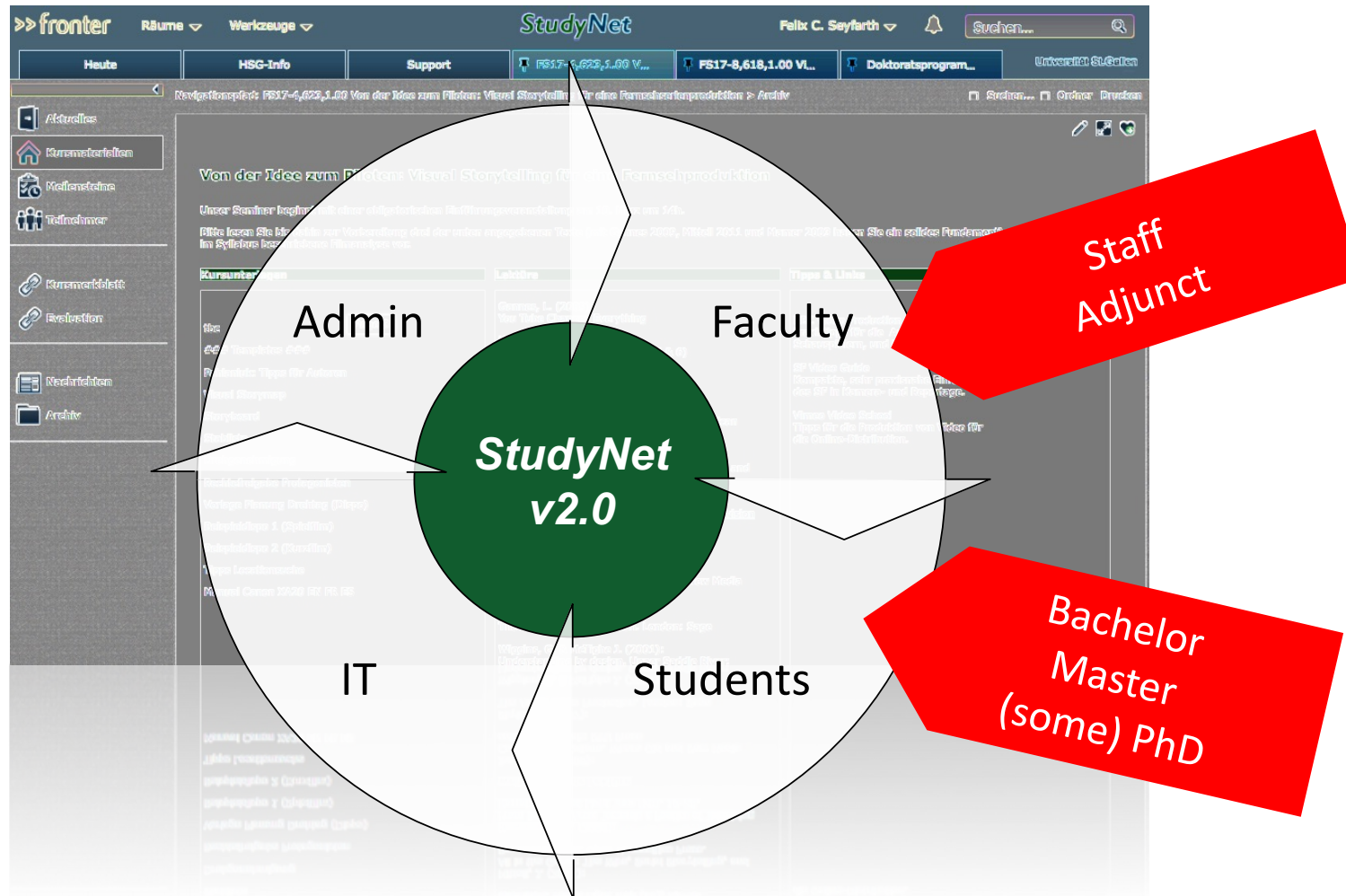
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In addition to digital infrastructure & services („**IT**"), HEI must invest in technology-supported Teaching and Learning („**TSL**")

HSG VISION 2025

Digitization supports new ways of teaching & learning.
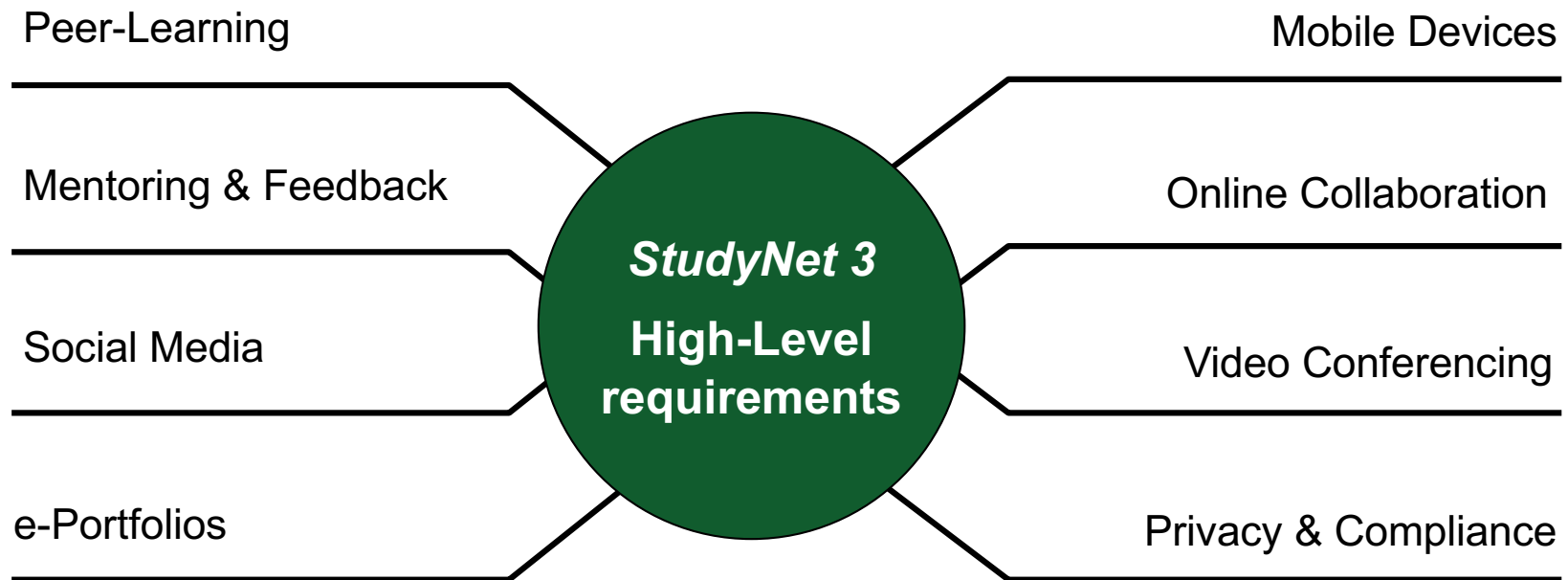
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The digital platform for teaching & learning „StudyNet v2.0" at HSG has relied on the *Fronter LMS* since 2010.

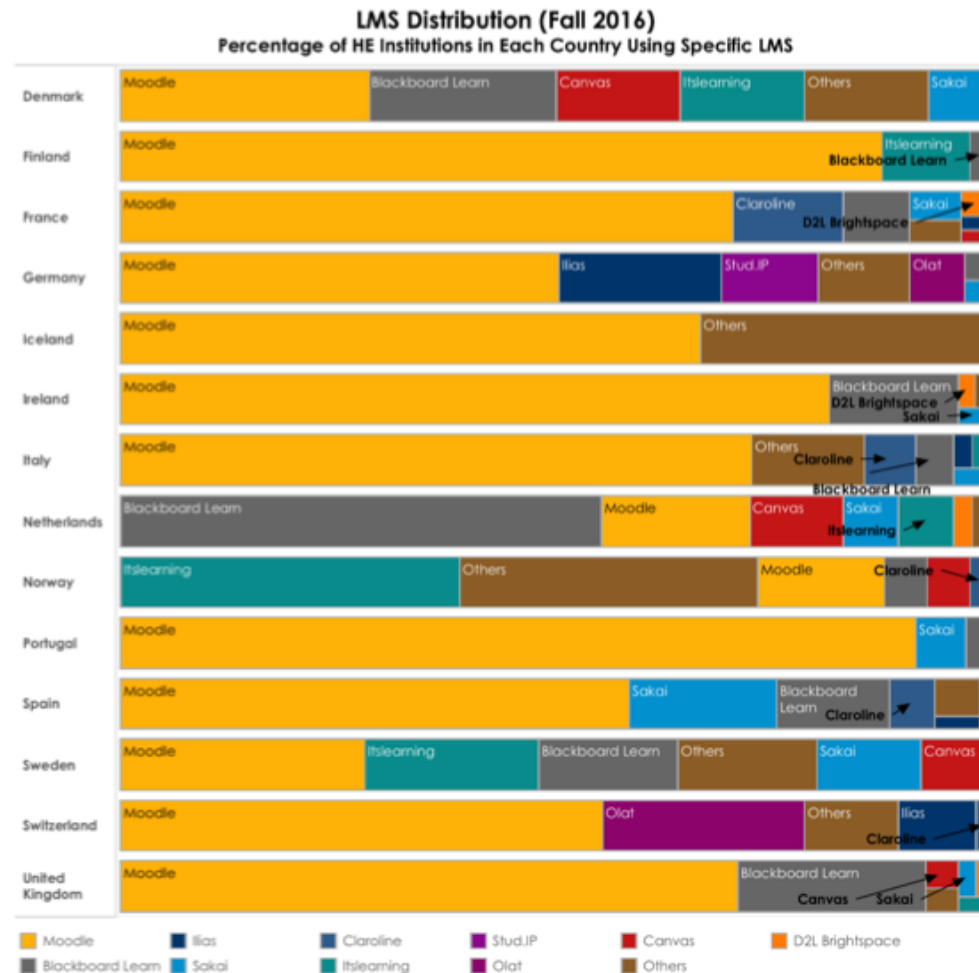*StudyNet is integrated with multiple systems and services.*

StudyNet generates 1'200 courses per semester for 10'000 users; but faculty and students often choose alternative tools.

SELECTION OF HIGH-LEVEL REQUIREMENTS 2018+

Peer-Learning

Mentoring & Feedback

Social Media

e-Portfolios

StudyNet 3
High-Level requirements

Mobile Devices

Online Collaboration

Video Conferencing

Privacy & Compliance

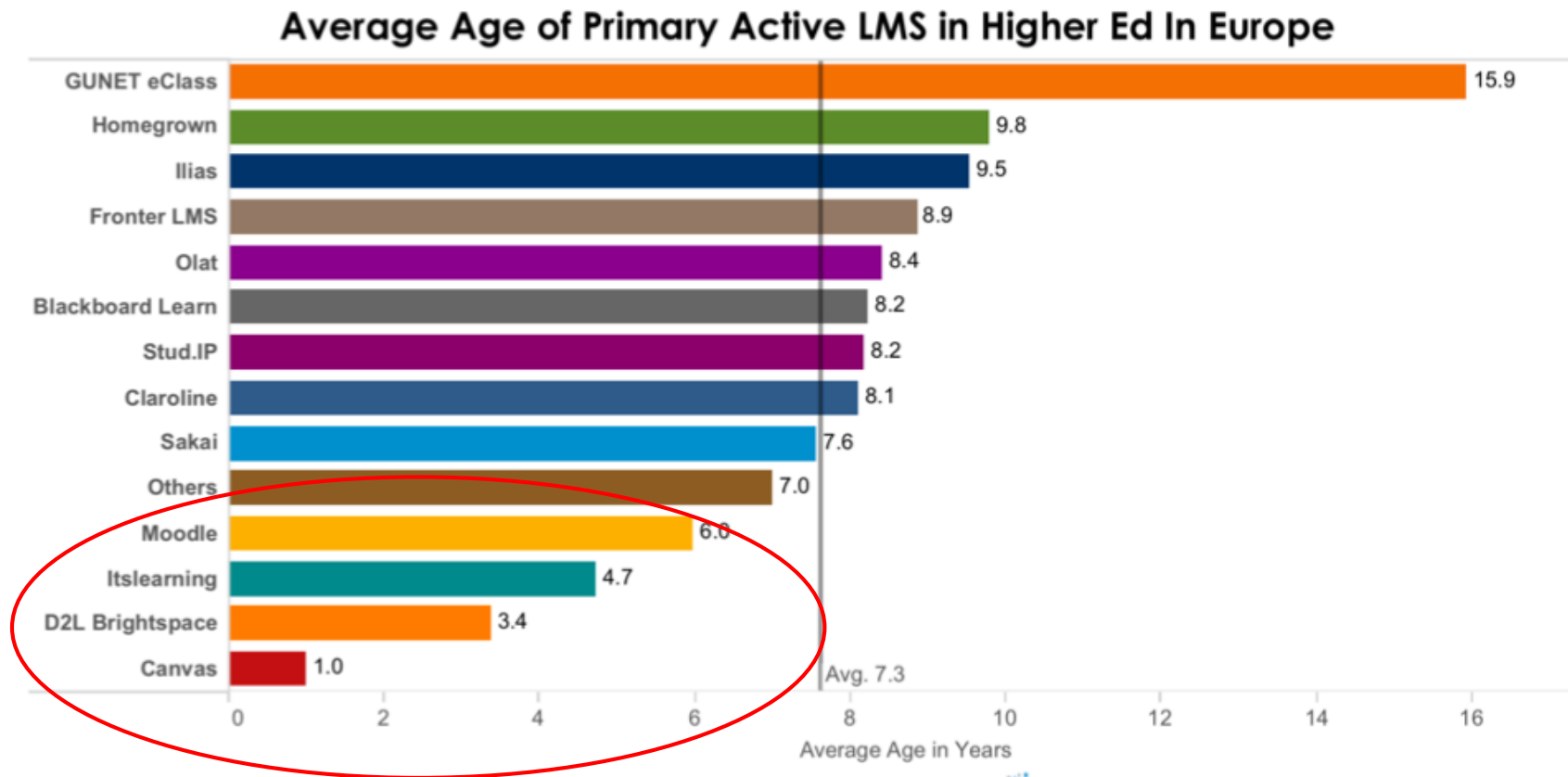*Future LMS needs to provide state-of-the-art functions.*

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1st generation LMS were often shaped by requirements of individual universities and national educational systems.

LMS Distribution (Fall 2016)
Percentage of HE Institutions in Each Country Using Specific LMS

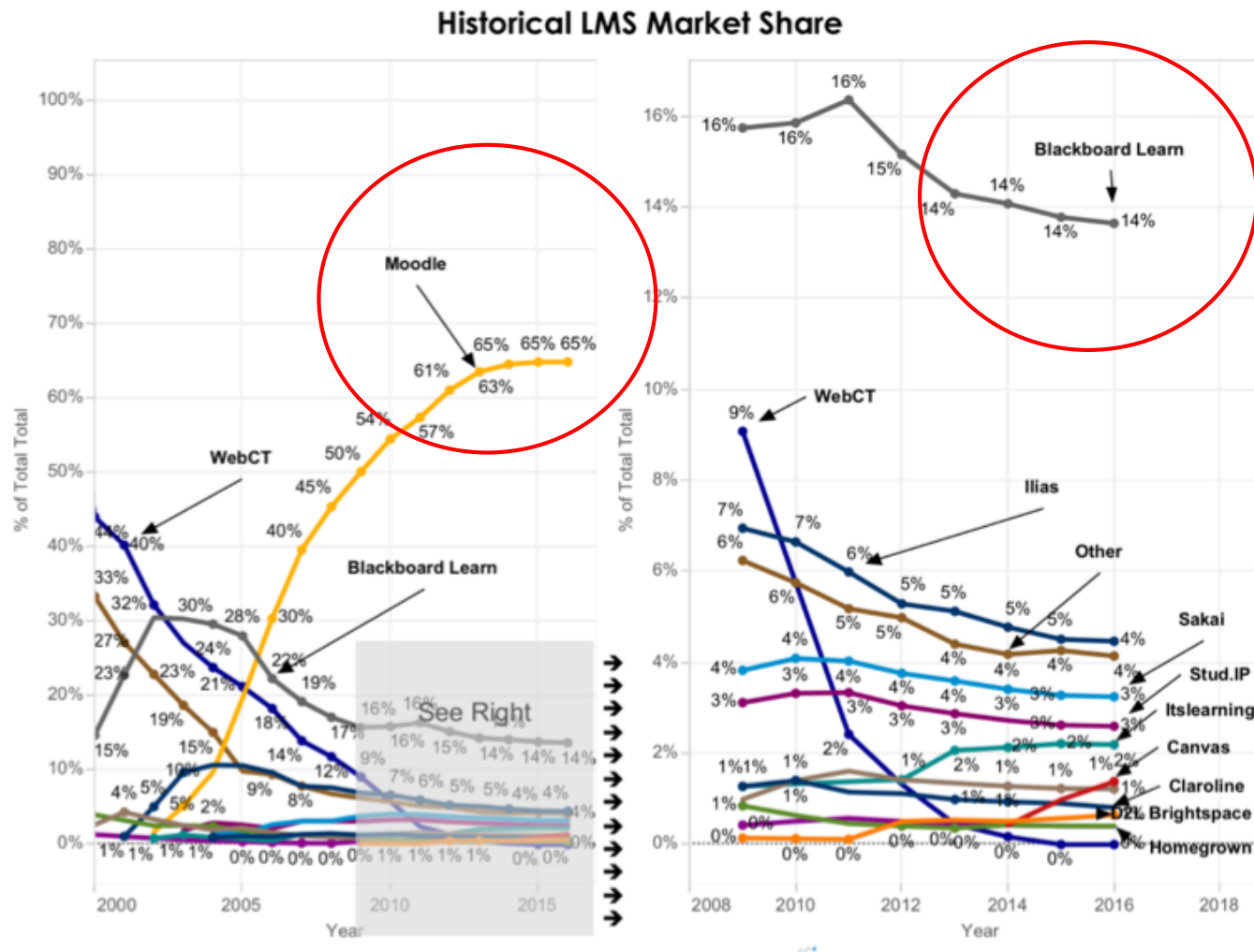*LMS often start as university spin-offs/start-ups.*

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1st generation LMS were implemented without use of OER, mobile devices, Web 2.0, digital video, Social Media, etc.

1ST AND 2ND GENERATION

Average Age of Primary Active LMS in Higher Ed In Europe

- GUNET eClass — 15.9
- Homegrown — 9.8
- Ilias — 9.5
- Fronter LMS — 8.9
- Olat — 8.4
- Blackboard Learn — 8.2
- Stud.IP — 8.2
- Claroline — 8.1
- Sakai — 7.6
- Others — 7.0
- Moodle — 6.0
- Itslearning — 4.7
- D2L Brightspace — 3.4
- Canvas — 1.0

Avg. 7.3

Average Age in Years

Rapid technological change outpaced LMS development.

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Overall LMS growth continues. But as the global market matures, vendors are consolidating for scale effects.

Historical LMS Market Share

Fewer vendors offer increasingly similar feature sets.

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Current generation LMS present mostly similar features, differ mainly on pricing model, ease-of-use and client-base.

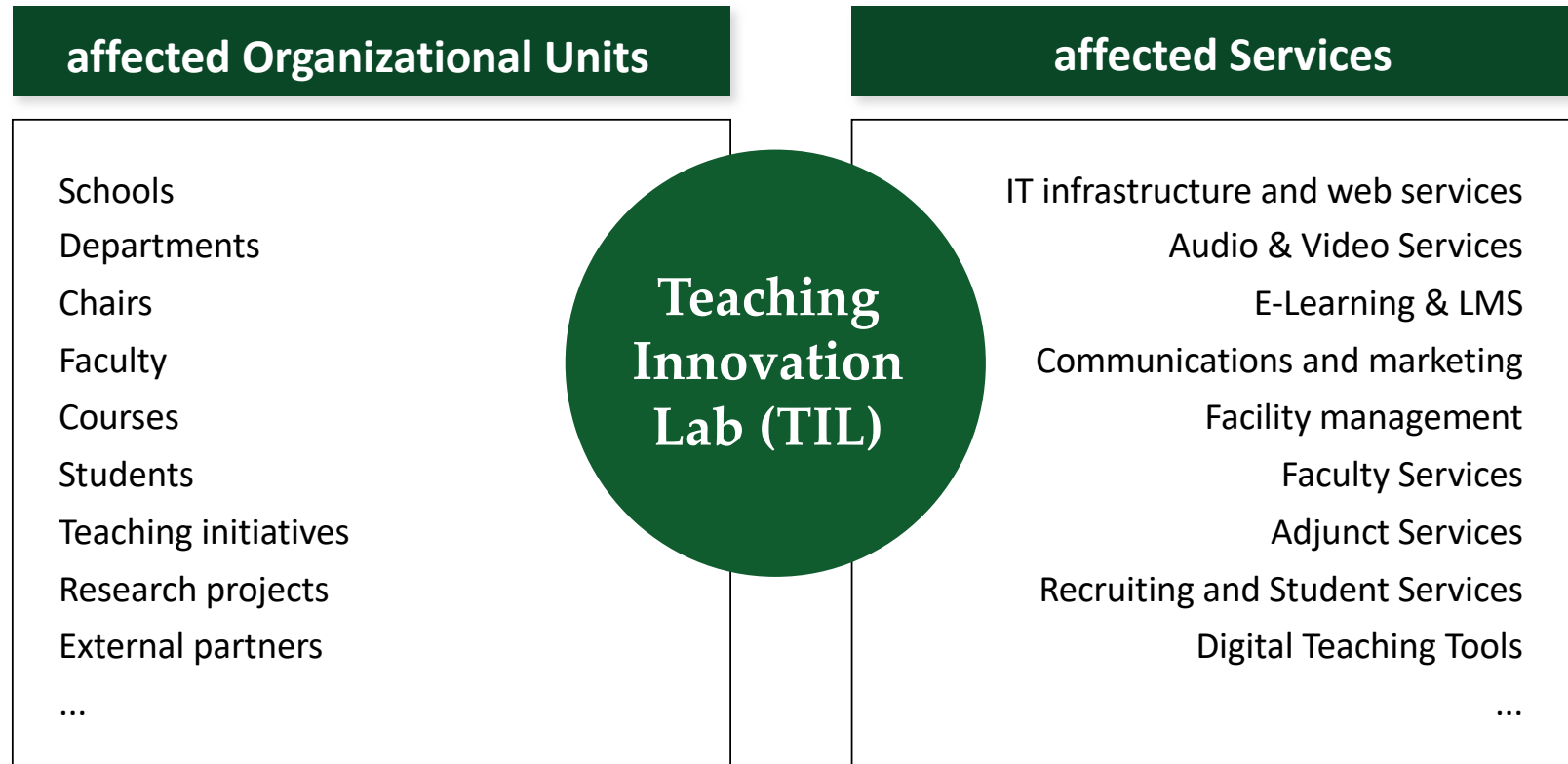**Percentage of New LMS Implementations by Year**

Trend toward cloud-solutions & mobile shifts market shares.

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The Challenge: "StudyNet 3" should bring new features, but maintain familiar workflows for faculty and students.

1. Improved learning experience for students.

2. Productivity tools for instructors.

3. Increased usage rates across all organizational units.

4. Integrated learning analytics and quality assurance.

5. Vendor provides migration experience.

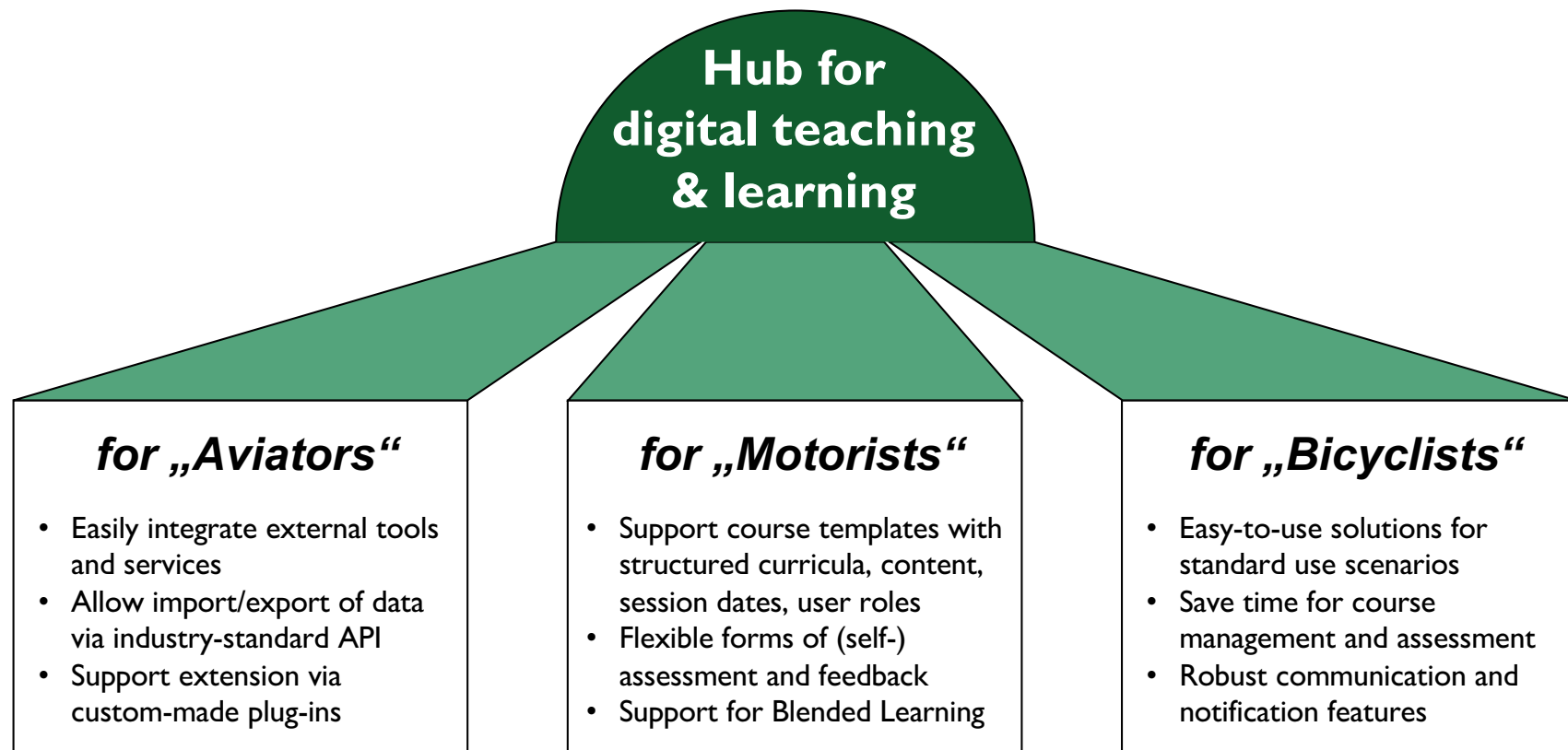6. Upgrade sharpens HSG profile as digital leader.

Criteria are ease-of-use, mobile support, extensible architecture.

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KPI *Adoption & Active Use*: LMS should add value, efficiency and enhance innovative learning culture throughout HSG.

affected Organizational Units

Schools

Departments

Chairs

Faculty

Courses

Students

Teaching initiatives

Research projects

External partners

...

Teaching Innovation Lab (TIL)

affected Services

IT infrastructure and web services

Audio & Video Services

E-Learning & LMS

Communications and marketing

Facility management

Faculty Services

Adjunct Services

Recruiting and Student Services

Digital Teaching Tools

...

TIL co-ordinates evaluation and gathers requirements for upgrade.

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KPI *Digital Practices*: LMS needs to accommodate different tiers of teaching and learning for both students and faculty.

Hub for digital teaching & learning

for „Aviators"

- Easily integrate external tools and services
- Allow import/export of data via industry-standard API
- Support extension via custom-made plug-ins

for „Motorists"

- Support course templates with structured curricula, content, session dates, user roles
- Flexible forms of (self-) assessment and feedback
- Support for Blended Learning

for „Bicyclists"

- Easy-to-use solutions for standard use scenarios
- Save time for course management and assessment
- Robust communication and notification features

Use of a single LMS as a common hub benefits all user groups.

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Evaluation of StudyNet 3 requirements collects input from 1'800 students (plus: IT, Student Parliament, Course Staff).

PILOT COURSES IN HS17

Course Nr.	Course Title	Lecturer	Course Designer	# Students	Level
3,210,1.00	Makroökonomie II (in German & English)	Winfried Koeniger	Janosch Weiss	910	BA
3,302,1.00	Public Management und Governance (in German & English)	Kuno Schedler, Grünenfelder Peter,	Ruth Frischknecht	180	BA
1,700,1.00	Geschichte der Staatsbildung				
3,726,1.00	Europa auf dem Weg in die Moderne				
3,551,1.00	Didaktischer Transfer I				
7,552,1.00	Aktuelle Themen der Wirtschaftsdidaktik				
3,196,1.00	Strategisches Management von Energieversorgungsunternehmen				
1,282,1.01/02	Principles of Financial Accounting, Gr 1/2				
1,102,2.07/08	Business Administration: Exercises and Independent Studies, Gr 7/8				
3,721	Reisen der Hoffnung: Die Schweiz als Migrationsland				
3,884,1.01	Russisch A2				
3,100,1.00	Marketing (in German & English)				
3,553,1.00	Bildungsmanagement 1				
1,222,2.38	Einführung in das wissenschafltiche Schreiben: Gruppe 38				
7,004,1.00	FPV: Mobile Business und Digital Enterprise				
3,706,1.00	Frankenstein's Legacy: Cultural Responses to Technological Change				
7,753,1.00	Das 500jährige Erbe der Reformation: Fundamentalismus, Kapitalismus, Aufklärung?				
7,676,1.00	Coaching und Selbstführung: Modelle für die Praxis				
1,702,1.00	Geschichte: Kulturgeschichte Russlands				
	CAS Hochschuldidaktik (Executive Education Course)	Bernadette Dilger	Bernadette Dilger		ExecE

Test LMS helps analyze actual practices and allows experimenting with potential practices

Blended Learning

In a blended learning environment...

Flipped Classroom

Personalized Learning

Personalized learning increases motivation and engagement by encouraging students to take charge of and design learning experiences that are meaningful to them.

Standards Mastery

Meaningful assessment and feedback is crucial. Track mastery of standards with itslearning's personalized learning platform, featuring our automated content recommendation engine.

Teacher Productivity

itslearning's award-winning personalized learning platform can help make you a more productive teacher, and add more teaching time to the school day.

Faculty volunteered for participation, TIL provided support.

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Evaluation and procurement process for „StudyNet 3" ran as parallel workstreams during fall term.

- ✓   Initial discussion of roadmap and option space during 2016.
- ✓   Nov 16   Various product presentations in.
- ✓   Feb 17   Definition must-have IT requirements.
- ✓   Mar 17   Definition roadmap for evaluation & upgrade.
- ✓   Apr 17   Project scoping and implementation scenarios.
- ✓   Jun 17   Licensed "test system" for Hs17.
- ✓   Aug 17   Recruited 15 pilot staff, prepared training.
- ✓   Aug 17   Submitted upgrade proposal to project board.
- ✓   Aug 17   Initiate IT procedures for pilot operations.
- ✓   Sep-Dez 17   1'800 students use pilot LMS, continuous evaluation.
- ✓   Jan 17   Finalization of Public Tender documents
- ✓   Feb 17   Pilot Evaluation; Publication of Tender

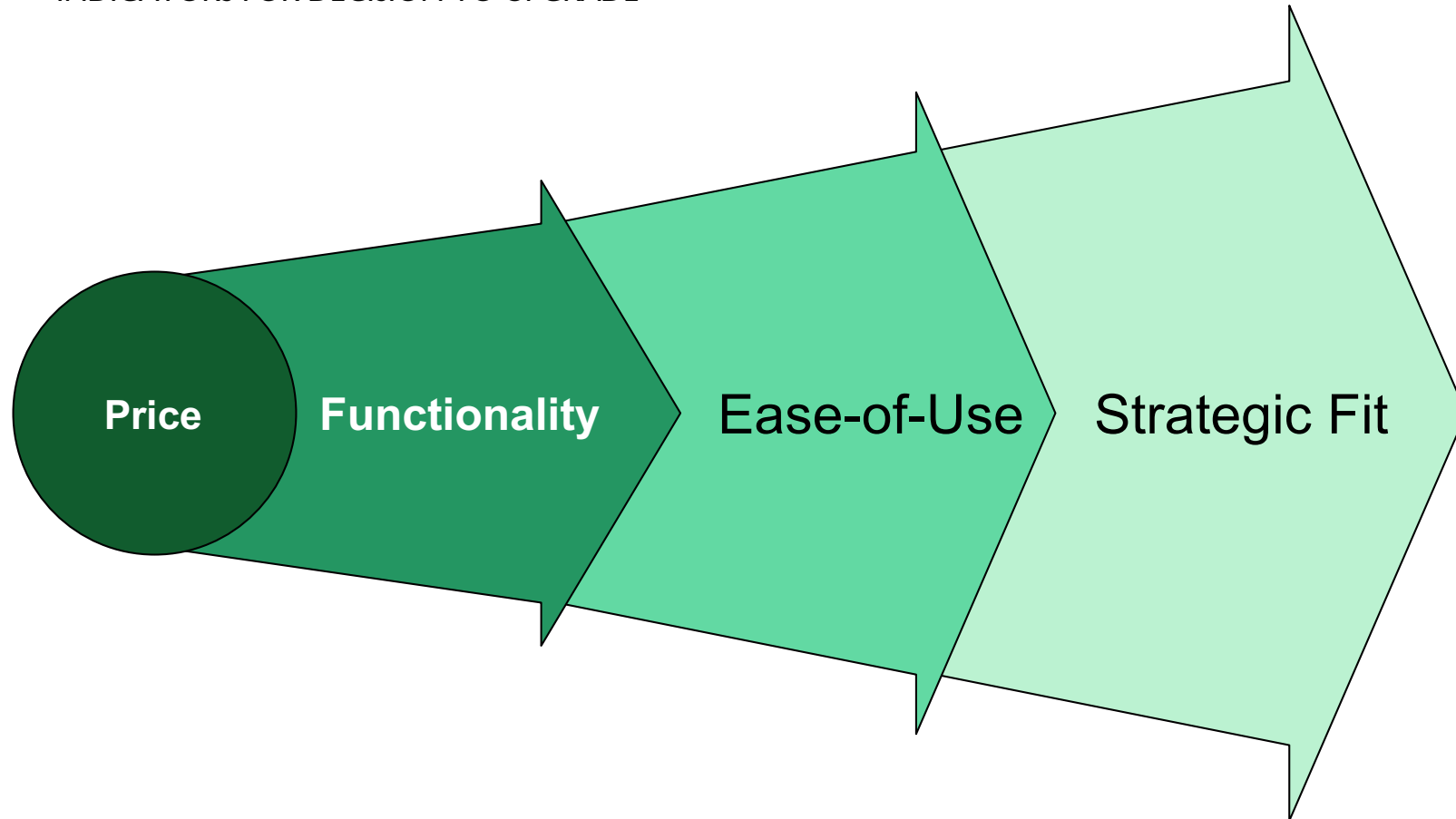*Hs17 Pilot results inform upgrade decision in 1Q18 ff.*

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Specification of requirements for teaching, pedagogy, instructional design, course management („Pflichtenheft").

Matching HSG vision future-proofs requirements.

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Upgrade decision considers price and functionalities, but assigns equal or higher weight to ease-of use and strategic fit.

INDICATORS FOR DECISION TO UPGRADE

Price **Functionality** Ease-of-Use Strategic Fit

Upgrade decision comprises a <u>technology</u> and a <u>relationship</u>.

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Mission Statement: "StudyNet 3" should be a dynamic hub, continuously adapting to organizational learning needs.

Tentative Roadmap going-forward (Hypothesis):

1. February 2018: Public Tender

2. March/April 2018: Review Proposals & Vendors

3. May 2018: Upgrade Decision and Contract Negotations

4. June – August 2018: Implementation & Testing

5. September 2018: Go-Live StudyNet 3

➢ 2018ff. Continuous development and optimization, agile development, updates based on new requirement.

LMS adoption requires on-going stakeholder conversation.

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