

Digitalization the life-cycle of the doctoral student from the application to the dissertation:

*University of Turku Graduate School
Information system (UGIS)*

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16th of June, 2017



Turun yliopisto
University of Turku



TURKU



ACADEMIC TRADITIONS IN TURKU SINCE 1640

University of Turku

Founded in 1919

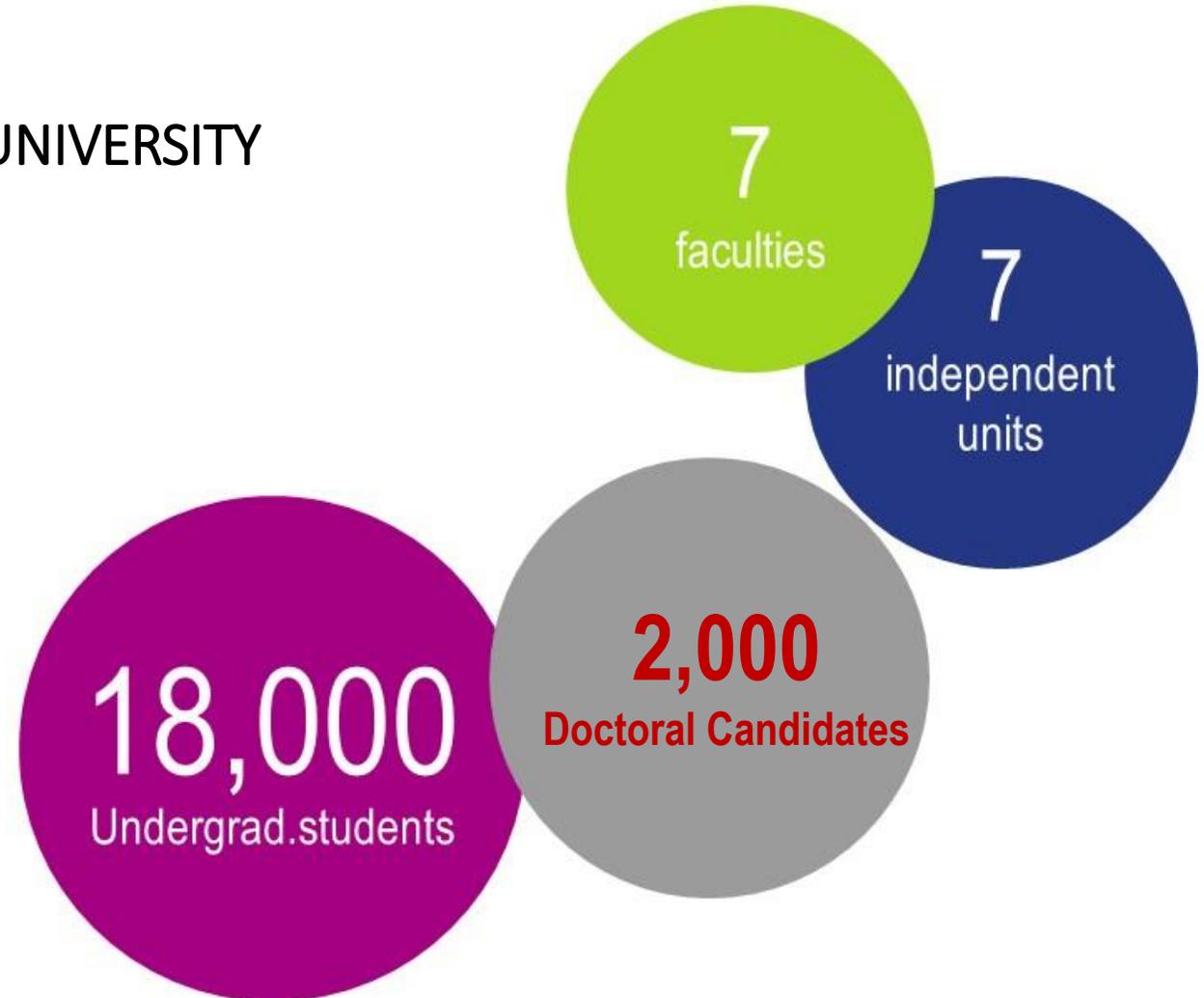
MULTIDISCIPLINARY AND
INTERNATIONAL RESEARCH UNIVERSITY



Turun yliopisto
University of Turku

UTU Graduate School

- Since 1.8.2012
- 16 Doctoral Programmes
- 175-180 PhD Degrees/ year



Motivation for Digitalization

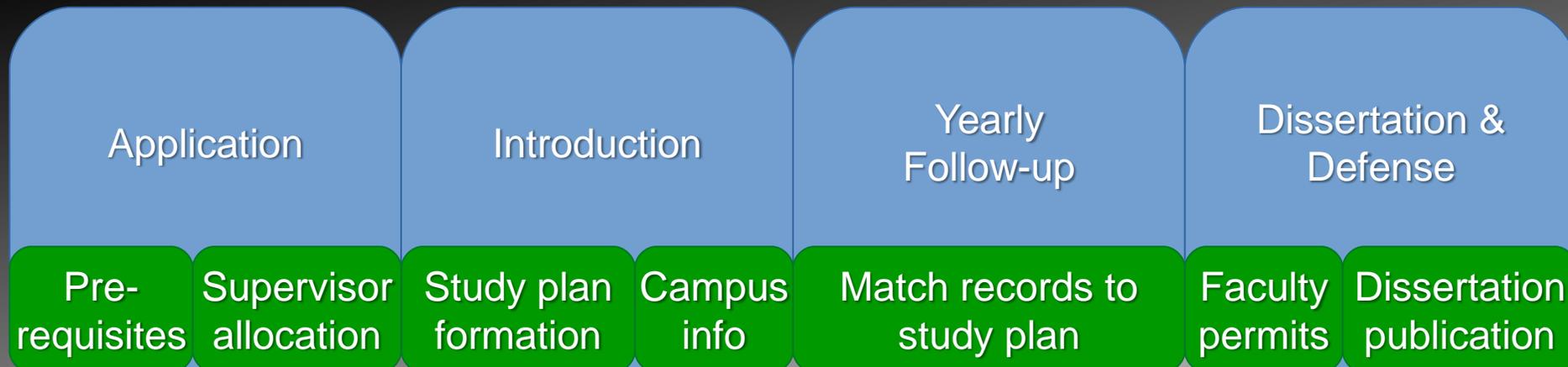
- Optimize system usage for all stakeholders
 - Remove manual repetition
 - Provide portal to find relevant systems
- Enable unrestricted reporting
- Relevant data scattered in multiple systems needs to be linked together to form required reports (integration)

The aims of the University of Turku Graduate School Information system (UGIS) project

- Build a life-cycle that covers all relevant events for a doctoral candidate
- Map existing systems to life-cycle events
- Digitalize the life-cycle
- Provide the digital life-cycle as a service

1) Build a Life-cycle of Relevant Events

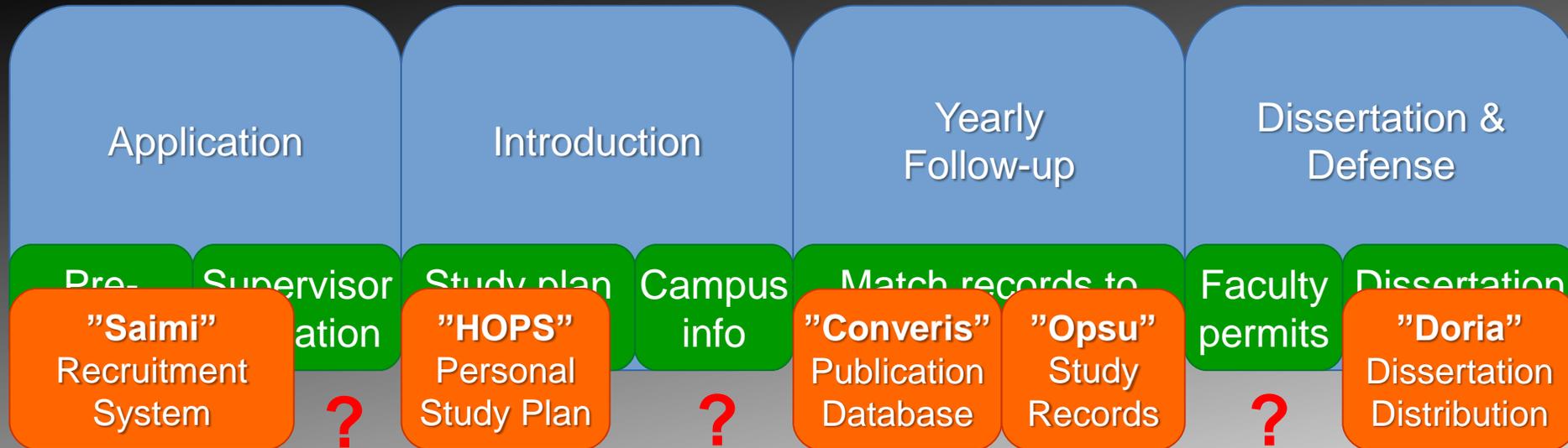
- Gather information from experts
→ Workshops with doctoral school coordinators



1) Build a Life-cycle of Relevant Events

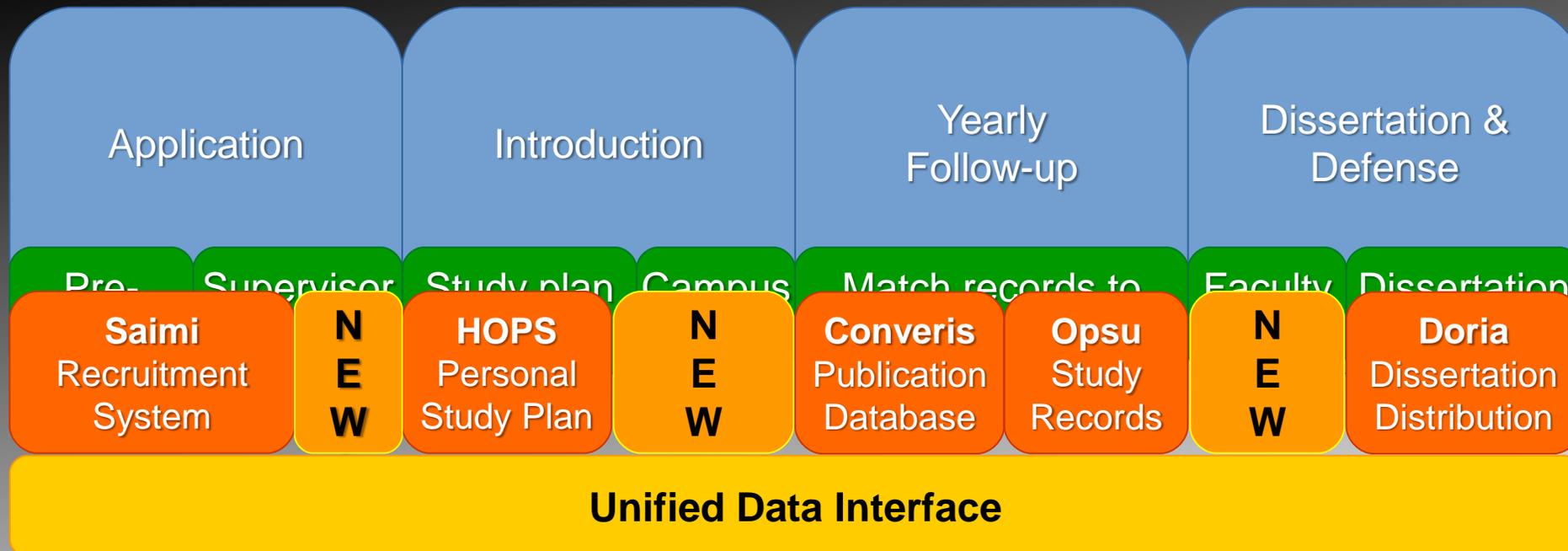
2) Map Existing Systems to Life-cycle

- What information already available? How accessible?
- For which events is no information gathered?



3) Digitalize the Life-cycle

- Design a data structure and interchange format capable of accommodating multiple systems
- Link existing systems with this format
- For missing events, device new systems





UGIS portal provides the Life-cycle as Service

- Modern software technologies to realize the service
 - 1) Intuitive to use
 - Co-develop with end-user
 - Does not interfere with existing processes
 - Reflects the states of linked, existing systems
 - 2) Device independent access
 - Mobile phone etc.

UGIS – University of Turku Graduate School Information System

User Roles:

- 1) Doctoral Candidate
- 2) Supervisor / Steering group member
- 3) Coordinator/Faculty

1) Doctoral Candidate

1.1) Browse life-cycle

1.2) Interact with events

1.3) Review and update own information

1.4) Receive news

1.1) Browse Life-cycle

After being accepted, the student can browser his/her life-cycle

The screenshot displays a web interface with a dark header containing a hamburger menu icon on the left and the text "Log" on the right. The main content area is titled "Events concerning Firstname Surname's studies". Below this title is a tree structure of events, with each level enclosed in a light blue box. The events are listed as follows:

- Application Process <
- Faculty Revision <
 - Request for Supplementary Information
 - Information Check Up and Preliminary Elimination
- Eligibility <
 - Language Proficiency
 - Base Degree Check
- Revisoning of the doctoral study plan <
 - Study Plan
 - Supervision Selection
 - Formation of the Monitoring Group
 - Degree Programme and Research Field Selection
 - Binding of the Research Unit and the Cost Unit
 - Funding Plan
 - Decision Regarding Salary Position
 - Proposal for Granting the Study Right
- Decision <
 - Acceptance of the Right to Study

At the bottom right of the interface, there is a small hamburger menu icon.

1.2) Interact with Events

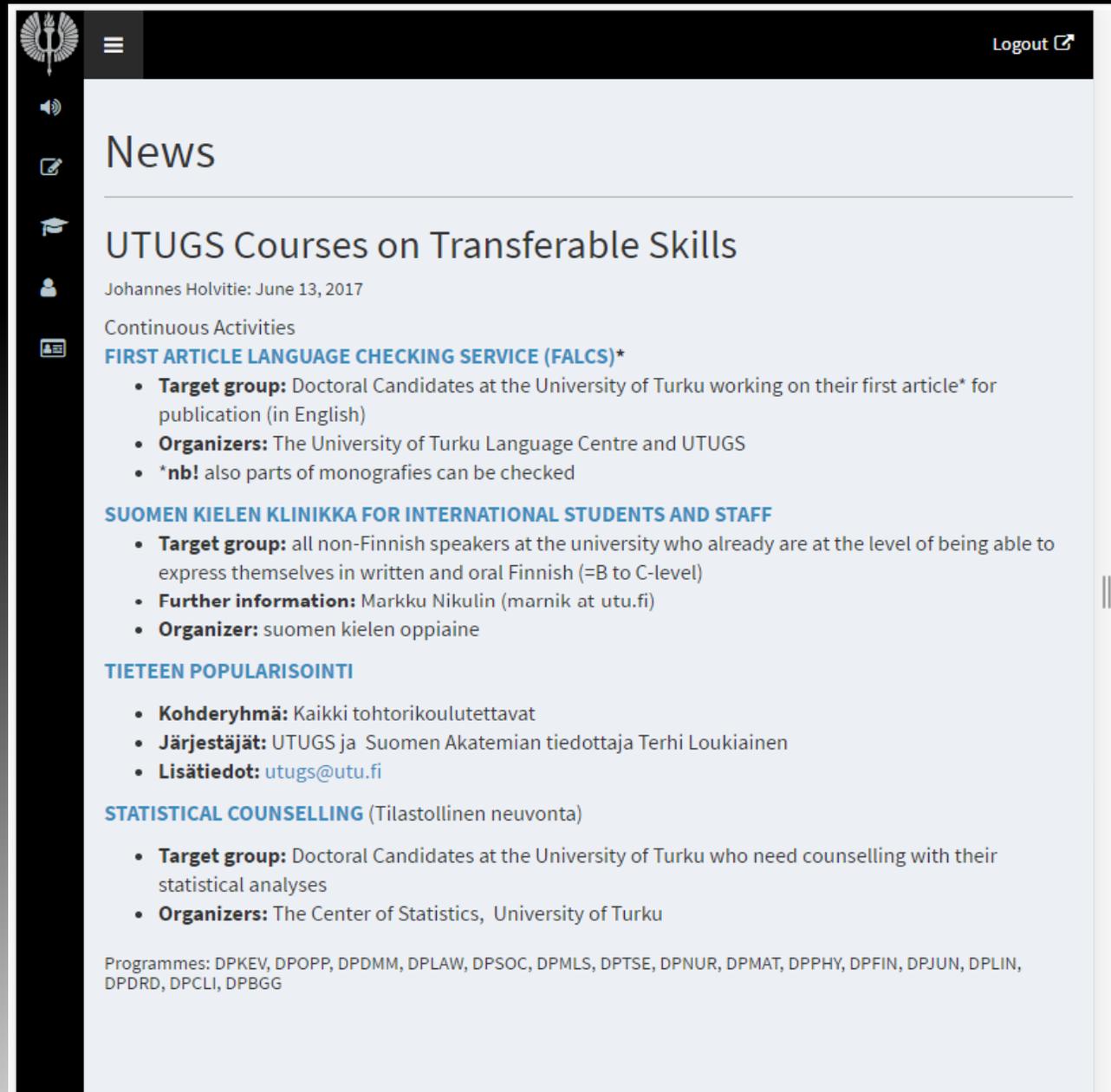
1.3) Review Own Information

- Who is my coordinator/supervisor?
- How do I contact them?
- What is my study plan?
- Where do I review my grades?

The screenshot displays the UGIS™ application interface. At the top, there is a navigation menu with a hamburger icon and a 'Logout' link. The main heading is 'Events concerning Firstname Surname's studies'. Below this, there are several colored buttons representing different event stages: 'Application Process <' (red), 'Faculty Revision <' (green), 'Eligibility <' (green), 'Revisoning of the doctoral study plan <' (red), and 'Study Plan' (orange). The 'Study Plan' button is currently selected, leading to a 'Supervision Selection' section. This section contains a list of four numbered instructions: 1. Check the Saimi System for any possible supervisor requests or recommendations; 2. Assign supervisors for the student by clicking on the 'Assign Supervisor' button; 3. Please note that assigning the UGIS responsibility supervisor will also assign the; 4. After you're satisfied with the handling of the event, change it status to 'processed'. If the process has been unsatisfactory, change the event status to 'Unsatisfactory'. Below the instructions is an 'Additional information:' section with a rich text editor toolbar (including options for Normal text, Bold, Italic, Underline, bulleted list, numbered list, link, unlink, and image) and a text input area with the placeholder 'Say something...'. A 'Send' button is located below the text area. At the bottom of the interface, there are five buttons: 'Processed' (green), 'Unsatisfactory' (red), 'Unfinished' (orange), 'Pass' (grey), and 'Assign Supervisor' (blue).

1.4) Receive News

Relevant, upcoming courses
and public defenses



The screenshot shows a web page with a dark sidebar on the left containing navigation icons: a university crest, a hamburger menu, a speaker, a pencil, a graduation cap, a person, and a calendar. The main content area is white and titled 'News'. The top right corner has a 'Logout' link with an external icon. The main heading is 'UTUGS Courses on Transferable Skills' by Johannes Holvitie, dated June 13, 2017. Below this is a section for 'Continuous Activities' with three sub-sections: 'FIRST ARTICLE LANGUAGE CHECKING SERVICE (FALCS)*', 'SUOMEN KIELEN KLINIKKA FOR INTERNATIONAL STUDENTS AND STAFF', and 'TIETEEN POPULARISOINTI'. Each sub-section contains bullet points with details on target groups, organizers, and further information. At the bottom, there is a section for 'STATISTICAL COUNSELLING (Tilastollinen neuvonta)' and a list of program codes.

Logout 

News

UTUGS Courses on Transferable Skills

Johannes Holvitie: June 13, 2017

Continuous Activities

FIRST ARTICLE LANGUAGE CHECKING SERVICE (FALCS)*

- **Target group:** Doctoral Candidates at the University of Turku working on their first article* for publication (in English)
- **Organizers:** The University of Turku Language Centre and UTUGS
- ***nb!** also parts of monographies can be checked

SUOMEN KIELEN KLINIKKA FOR INTERNATIONAL STUDENTS AND STAFF

- **Target group:** all non-Finnish speakers at the university who already are at the level of being able to express themselves in written and oral Finnish (=B to C-level)
- **Further information:** Markku Nikulin (marnik at utu.fi)
- **Organizer:** suomen kielen oppiaine

TIETEEN POPULARISOINTI

- **Kohderyhmä:** Kaikki tohtorikoulutettavat
- **Järjestäjät:** UTUGS ja Suomen Akatemian tiedottaja Terhi Loukiainen
- **Lisätiedot:** utugs@utu.fi

STATISTICAL COUNSELLING (Tilastollinen neuvonta)

- **Target group:** Doctoral Candidates at the University of Turku who need counselling with their statistical analyses
- **Organizers:** The Center of Statistics, University of Turku

Programmes: DPKEV, DPOPP, DPDMM, DPLAW, DPSOC, DPMLS, DPTSE, DPNUR, DPMAT, DPPHY, DPFIN, DPJUN, DPLIN, DPDRD, DPCLI, DPBGG

2) Supervisor

2.1) Browse students under supervision

2.2) Receive updates

2.3) Get action prompts

Receive email with clear description of the unfolding event and a prompt with exhaustive options to advance the event

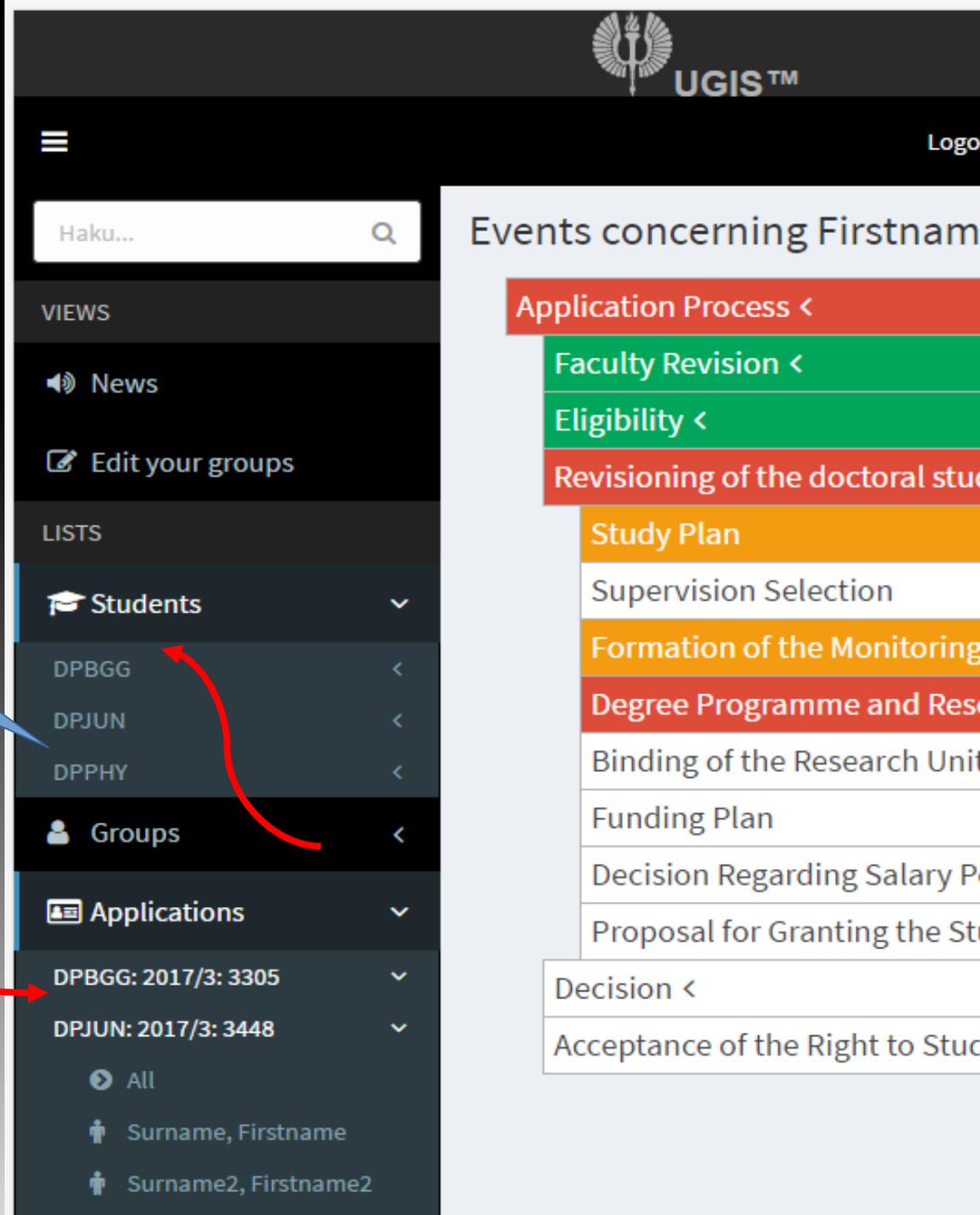
The screenshot displays the UGIS mobile application interface. At the top, the UGIS logo and 'UGIS™' are visible, along with 'Logout' and 'Supervisor Name' options. A search bar labeled 'Haku...' is present. The main menu is divided into 'VIEWS' (News, Edit your groups) and 'LISTS' (Students). The 'Students' list shows a selection of student names, with a red arrow pointing from the 'Students' menu item to the 'Application Process' event in the right-hand pane. The right-hand pane, titled 'Events concerning Firstname Surname's studies', lists various events: Application Process < (red), Faculty Revision < (green), Eligibility < (green), Revising of the doctoral study plan < (red), Study Plan (orange), Supervision Selection (white), Formation of the Monitoring Group (orange), Degree Programme and Research Field Selection (red), Binding of the Research Unit and the Cost Unit (white), Funding Plan (white), Decision Regarding Salary Position (white), Proposal for Granting the Study Right (white), Decision < (white), and Acceptance of the Right to Study (white).

3) Coordinator

3.1) Browse students and applicants in affiliated organizations

Organization (e.g., doctoral school) linked to application system
→ New application immediately available as a new life-cycle

Automatic transition when applicant becomes student



3) Coordinator

3.2) Produce News

Produce, edit, and decide where

- to share news
- Inform affiliated students and supervisors about relevant matters

Logout Johannes Holviti

Edit News

Haku...

NEWS

News

Edit your

LISTS

Students

Groups

Applicat

Create new

Topic*

UTUGS Courses on Transferable Skills

Text*

Normal text Bold Italic Underline Bulleted list Numbered list Indent Outdent Undo

Image

Continuous Activities

[FIRST ARTICLE LANGUAGE CHECKING SERVICE \(FALCS\)*](#)

- **Target group:** Doctoral Candidates at the University of Turku working on their first article* for publication (in English)
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[SUOMEN KIELEN KLINIKKA FOR INTERNATIONAL STUDENTS AND STAFF](#)

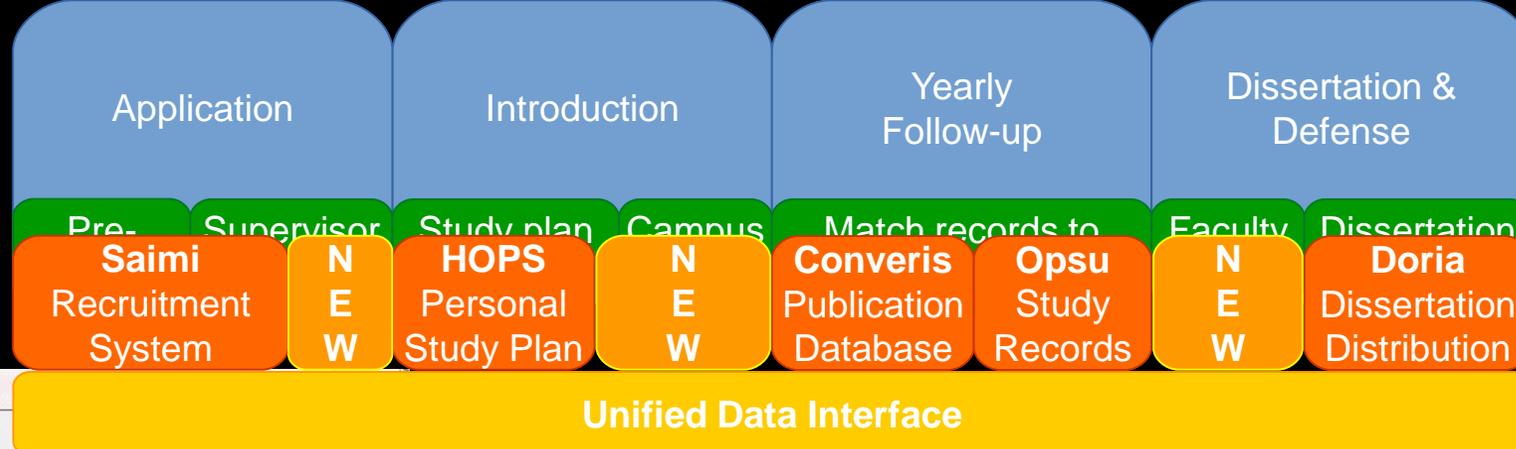
- **Target group:** all non-Finnish speakers at the university who already are at the level

Ohjelmat*

DPKEV DPOPP DPDMM DPLAW DPSOC DPMLS DPTSE
 DPNUR DPMAT DPPHY DPFIN DPJUN DPLIN DPDRD
 DPCLI DPBGG

Lähetä Peruuta Poista

Sulje



Pivot Table Layout

Page Fields:

Column Fields:

Data

Row Fields:

Data Fields:

userName
firstName
lastName
lastLogin
role
contacts
dateJoined

Options

Source and Destination

Help

OK

Cancel

Drag the Items into the Desired Position

3.4) Generate Reports

- Generate informative reports
 - on selected dimensions

UGIS

- Within one year developed by 2.5 persons and a coordinator
 - 10 months to learn and create one architecture from
 - 12 organizations, using 8 integrated systems, with 46 data interfaces
- Architecture ensures that life-cycles are fully interchangeable
 - accommodates new organizations, curricula, and accompanying support systems
- Videos demonstrating usage: ugis.utu.fi/info
- More information and introduction requests:
email elise.pinta@utu.fi

Acknowledgements



Johannes Holvitie



Elise Pinta



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University of Turku