



BOKU's Research Information System FIS

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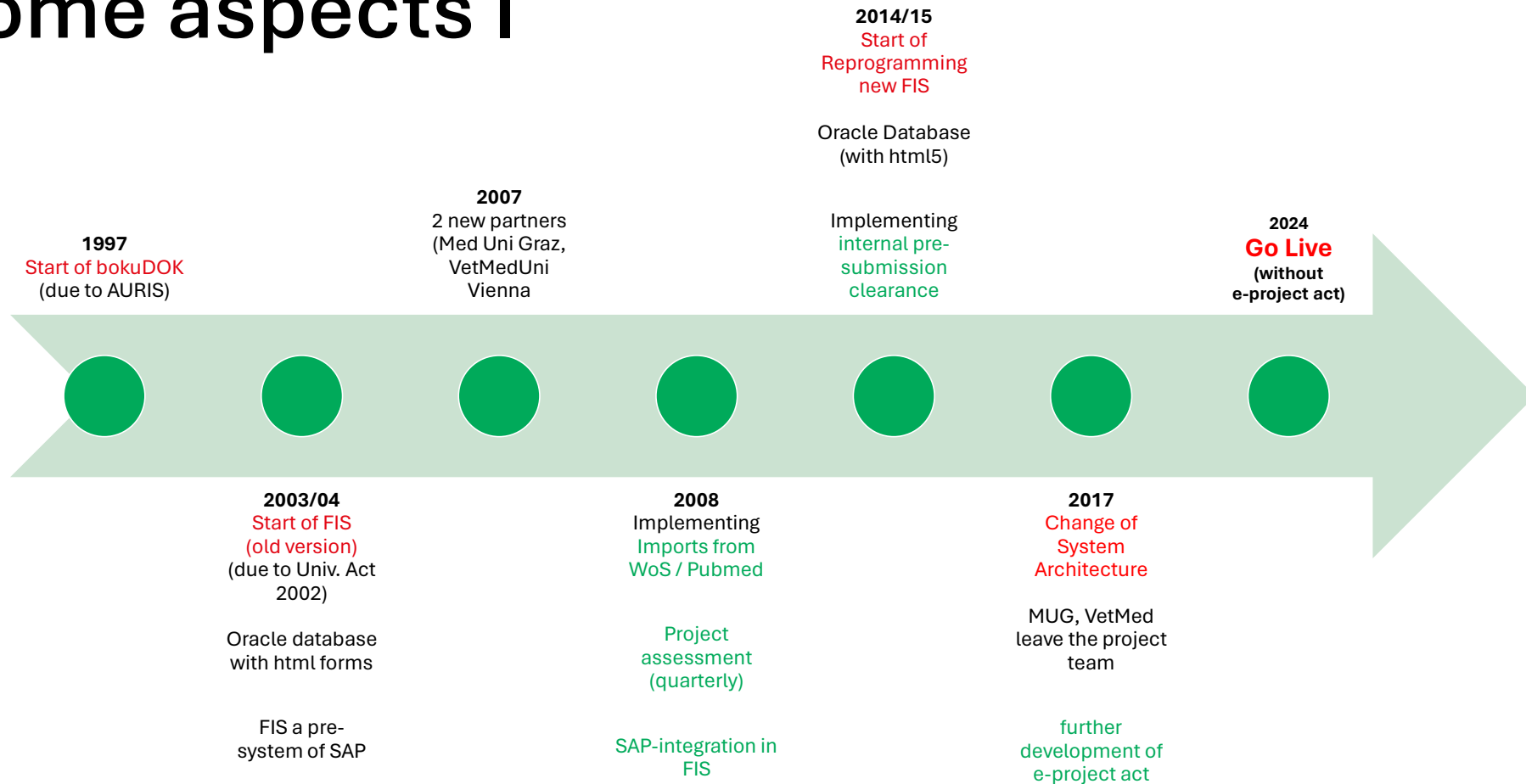
Research Support, Innovation &
Technology Transfer
BOKU University



BOKU Research Information System FIS

- development over the last 27 years, a timeline
- new system architecture
- BOKU's research indicators based on FIS
- our new system, some interesting features
- data collection - which research indicators are used by BOKU
- BOKU's unique selling point “electronic project act”
- outlook

The development over the last 27 years, some aspects I



The development over the last 27 years, some aspects II

- involved service units
 - Lead: FIS-Team (research support office)
 - Partners: pre-award-support, controlling, finance department, service agency for project-audits, tech transfer, legal department
- external programmer (till ~ 2014)
- **cooperation with universities („open“)**
 - Medical University of Graz
 - University of Veterinary Medicine, Vienna
- working groups (AT2OA², FIS/CRIS,...)
- hugh system, developed step by step; („(un)controlled growth“)
- since 2009: nearly no new functions for pubs, community services („cosmetic corrections“)
- since 2008: expansion of project management functions
 - 2014: implementing pre-submission clearance of project proposals (pre-system of FIS)
- **2014: start of reprogramming (“FIS3+”)**
main focus: developing a modern, user-friendly system with simultaneous streamlining of the model
- Balancing act: developing “old” vs. “new” system

old & new FIS architecture



The new FIS system, interesting features

Web Portal

- **barriere-free** (web portal, data collection)
- **bilingual, sustainable**, responsive,
- search engine optimization (SEO)
- **communication with society** (open access pubs, media contribution, social media integr. ...)
- integrated expert search

Data Collection

- Interactive dashboard
- import from **Scopus**, Web of Science, PubMed
- exports available for researchers
- **test automation** („Ranorex“)
- **bilingual moodle courses** for users,
- tooltips, placeholder... (easily modified via „loco“)

Public profile of BOKU's Vice-rector for Research

Christian Obinger



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CV

Projects

Publications

Knowledge Transfer to Society

Media

Lectures

Supervised Theses

Community Services

Dashboard & data collection

The screenshot displays the BOKU Research Information System (FIS) dashboard. At the top, the BOKU logo is on the left, and the user's login information is in the center: "Editor: Mayr Horst | Logged in as: Gerzabek Martin (5172) | Scientist | IL Deputy: H911". On the right, there are links for "DE" and "color scheme", and the FIS logo with the text "FORSCHUNGS INFORMATION SYSTEM".

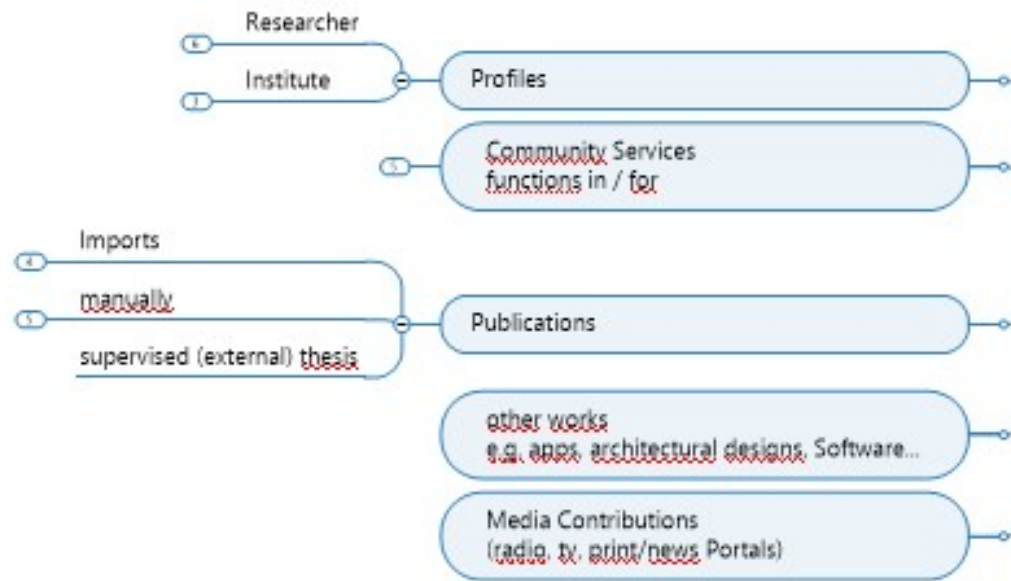
A left-hand menu contains the following items: Homepage, Publications, Media, Community services, Profile, and Org Unit. Below the menu, the user's ORCID (0000-0002-3307-8416), AuthorId (7005806560), and ResearcherId (AAA-8806-2019) are listed, along with contact information for FIS data capture.

The main content area features three primary sections:

- Researcher profile** (orange header with a person icon):
 - Curriculum Vitae: ✓ (14)
 - Frascati Classification: ✓
 - Keywords Austrian Statistics: ✓ (3)
 - Free Keywords: ✓ (5)
 - Awards: 22
 - Additional Data: ✓ (3)
 - Research focus: ✓
- recently assigned publication** (orange header with a document icon):
 - Date: 3.5.2024
 - Publication: WOLFGANG F-H ; KLAUS P ; JOHANN R ; OTHMAR H ; GEORG W ; ANDREA W ; ET AL: *Non-destructive soil amendment application techniques on heavy metal-contaminated grassland: Success and long-term immobilising efficiency* *JOURNAL OF ENVIRONMENTAL MANAGEMENT [INTERNET]*, 2017;186:-
- Links to the public profile** (orange header with a link icon):
 - Researcher profile
 - curriculum vitae
 - Projects
 - Publications
 - Knowledge Transfer to Society
 - Media
 - Lectures
 - Supervised Theses
 - Community Services

At the bottom, a green banner with a graduation cap icon promotes the "Moodle training course for FIS+".

Data collection: research indicators



COARA?

Indicators used for legal reports, evaluation procedures ...

- publications
 - sci pubs, citations, normal. IF/quartile (author's role, e.g. corresponding)
 - other pubs in peer-reviewed journals
 - books / book chapters, editorials, proceedings
- 3rd mission publications
- community services
- + Altmetrics integration



Electronic project act I

BOKU's **unique selling project management system**, consists of **internal pre-submission clearance** (of project proposals) = pre-system for research information system, implemented 2014, used for:

- contract research / cooperative research and funded research
- also for inter/national education projects, administration projects ...

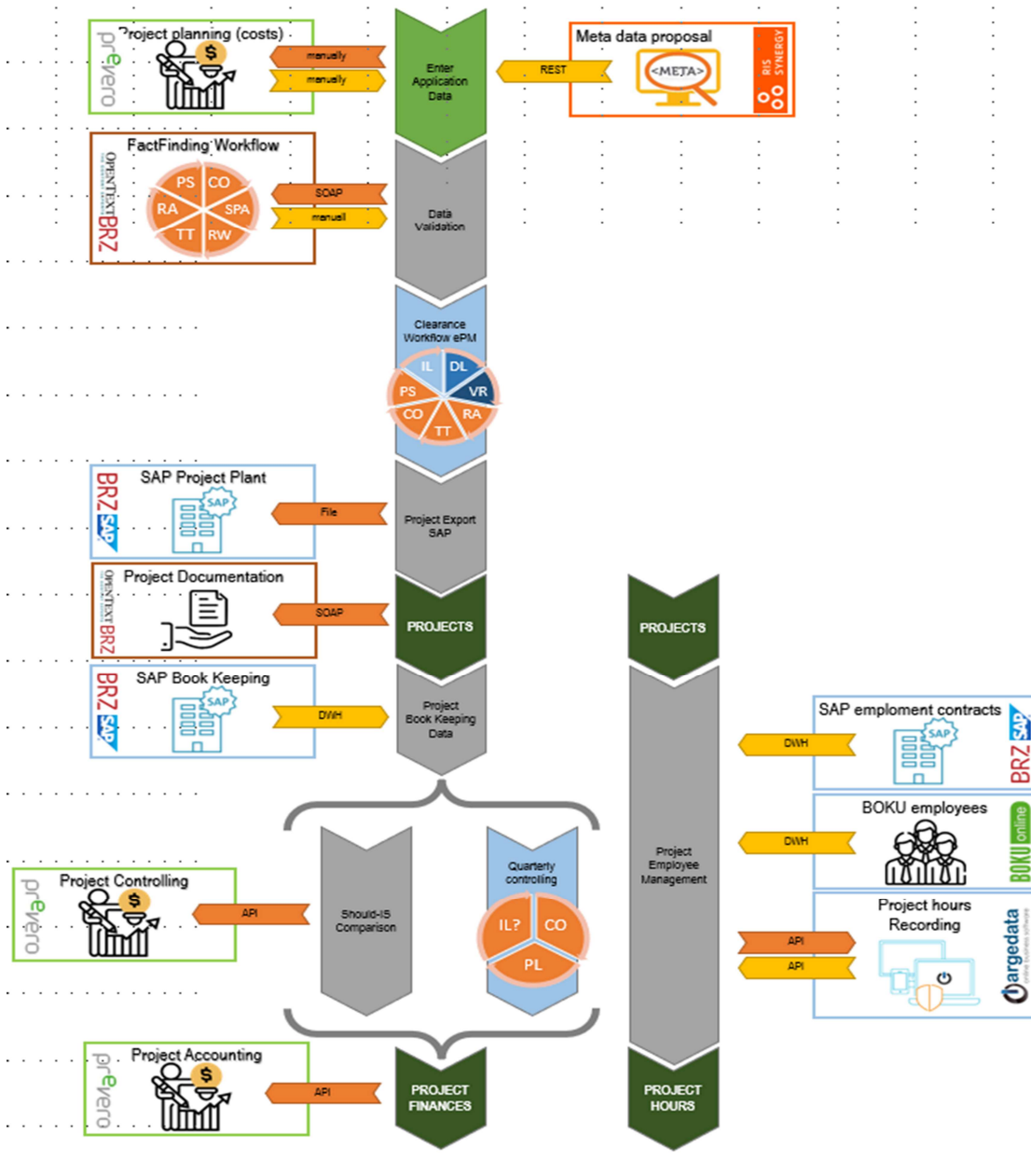
Includes:

- process management workflows (from researcher to department / rectorate)
- involvement of all responsible service units („Fact Finding“)
- interface to DMS (document management system, by BRZ (openText))
- finance calculation (*new*: interface to professional solution „prevero“)

Electronic project act II

Project documentation and management = FIS as pre-system of SAP

- direct takeover of „successful“ project applications (from pre-submission clearance) into FIS / projects → complete documentation of project acquisitions = requirement to get an internal order number for SAP
- import of „Book Keeping Finance data“ into FIS (= SAP integration, via DWH)
- should-Is-comparison („should“-part will be implemented soon)
- quarterly controlling / project assessment; basis for financial statements
- interfaces: SAP, argeDATA (electronic and audit-proof recording system of project hours), DMS & Prevero (project calculation)
- project completion „at once“ in both systems: SAP and FIS



The workflows: electronic project act

Outlook

... next steps

- „Phase 2 FIS3+“ = **complete reprogramming of „electronic project act (ePA)“** (planned start: 2025 → part of the performance agreements with ministry)
- **Web Accessibility Certificate (WACA)** for both, portal and data collection
- development / optimization / adaptation of **reports and analysis** (e.g. Intellectual Capital Report, performance agreements, evaluation procedures; ...)
- **DAMAP integration** (first in the old system, in course of redesign of ePA in the new system, too)
- interface to ORCID, DOAJ...
- interface to BOKU's Invenio RDM (research data)
- implementing Journal API (Web of Science)



„Service with a smile“

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