

ProSkive-Bio – a cost-effective solution for stream-lining the application procedure at the biobank



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BIOBANKING FOR
GLOBAL CHALLENGES

PROBLEM

At the iBDF, scientists submitted paper-based proposals to gain access to biomaterial and clinical data. A project management team supervised the application procedure, evaluation by a scientific board and approval by the ethics committee. All project-related information was stored in a MS Access-database and status-updates were re-distributed by contacting all parties using telephone or e-mail. This time-consuming procedure lacked transparency for scientists and hindered efficient project management and tracking. Digitization of the process was desirable, with biobank applications being easily monitored by all participants via a user-friendly and intuitive web interface. Hence, ProSkive-Bio, a project management tool for biobanks and scientists, was planned and implemented as a cost-effective solution for stream-lining the application procedure.

SOLUTION

In its current form, ProSkive-Bio, a project management tool for biobanks and scientists, maps the application process and the further tracking of projects digitally and transparently for all parties involved in a user-friendly web interface.

The following functions have been implemented so far:

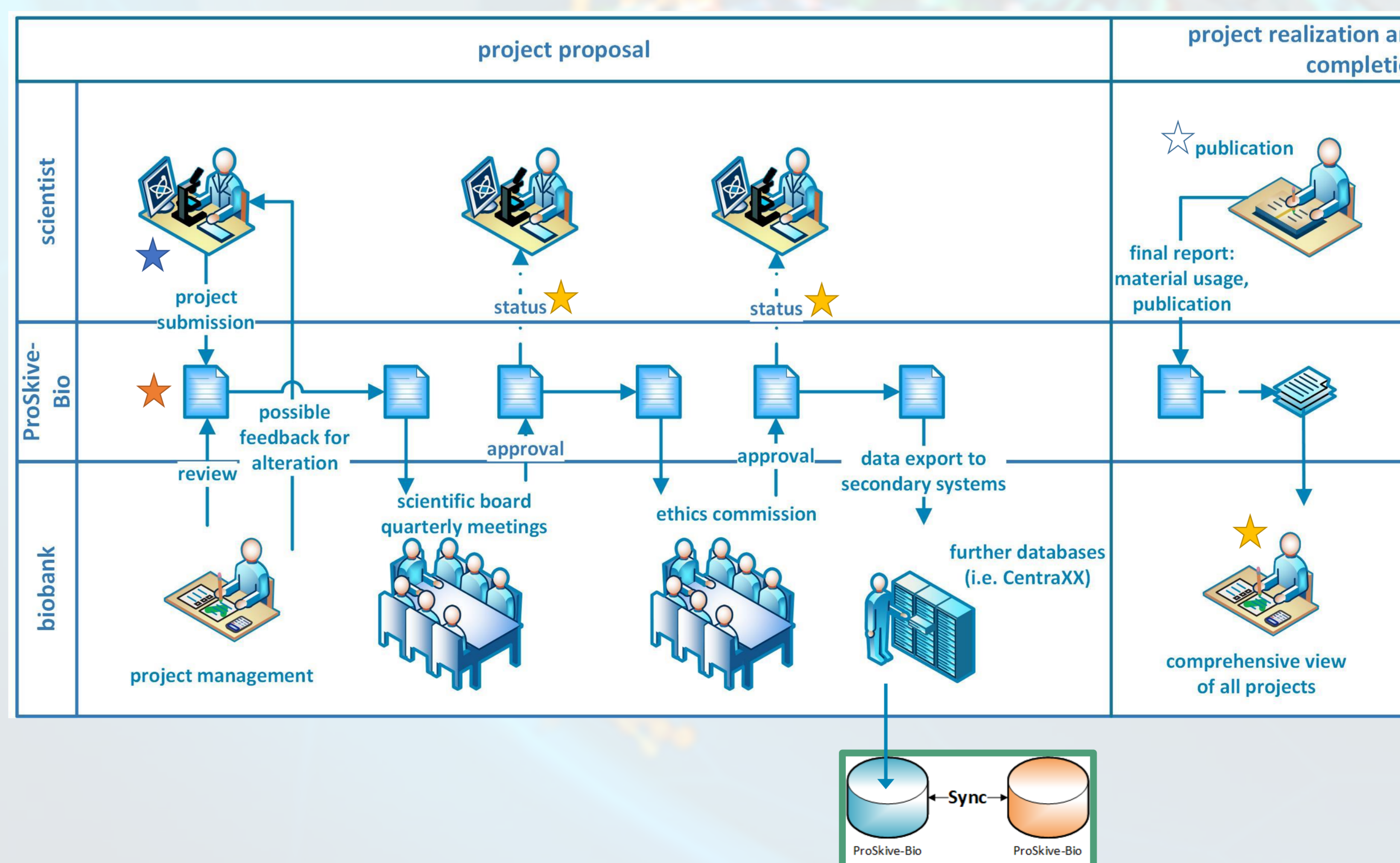
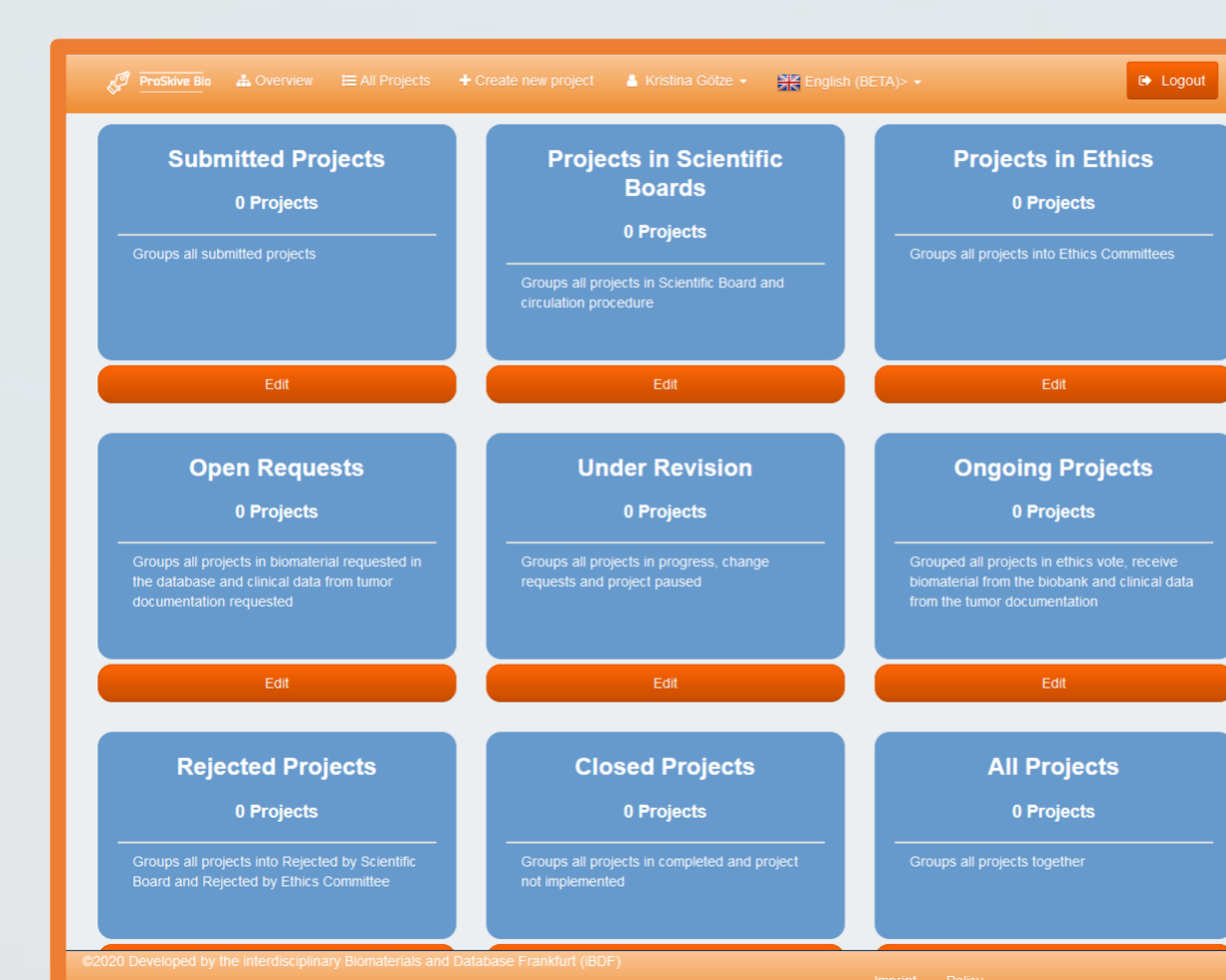
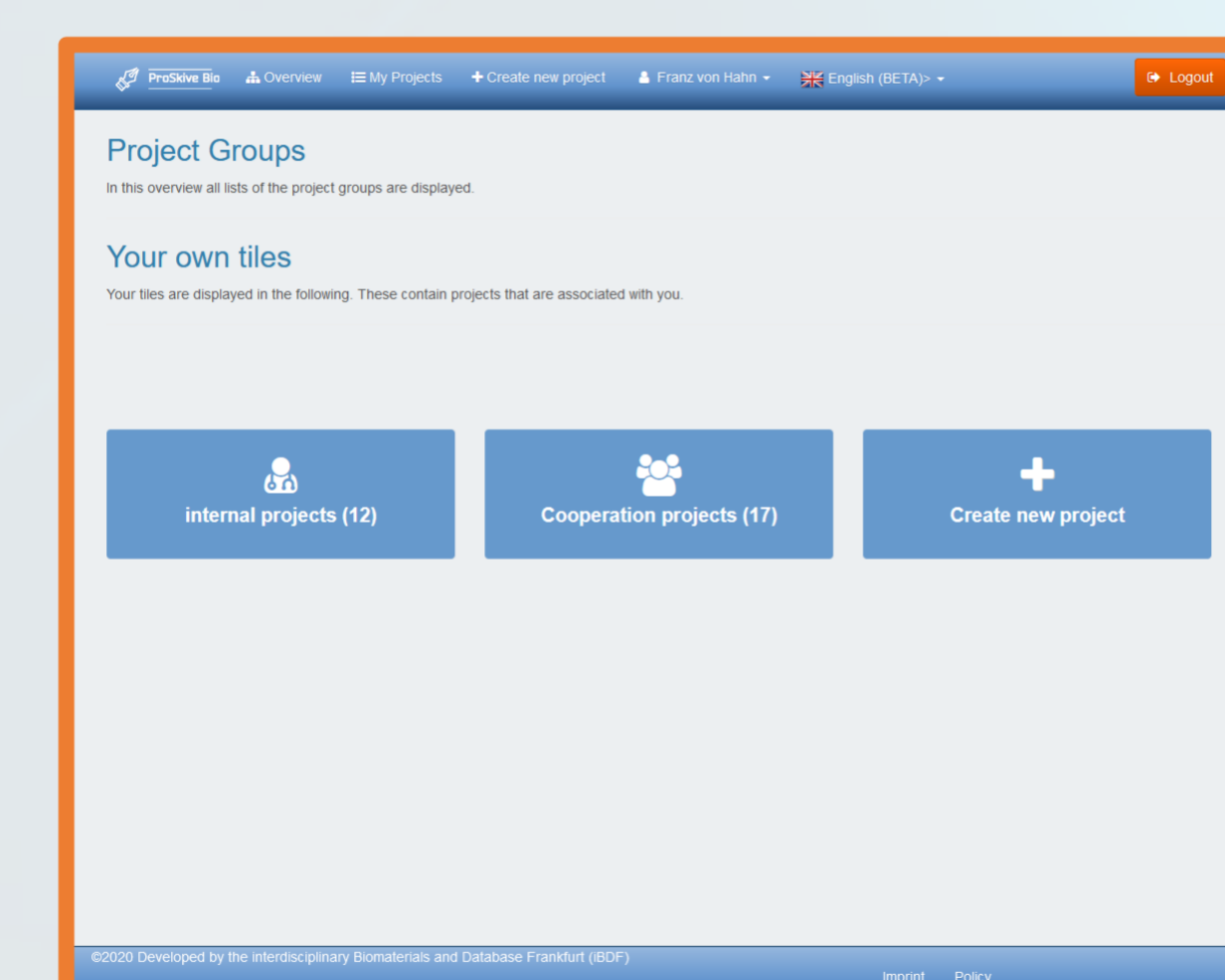
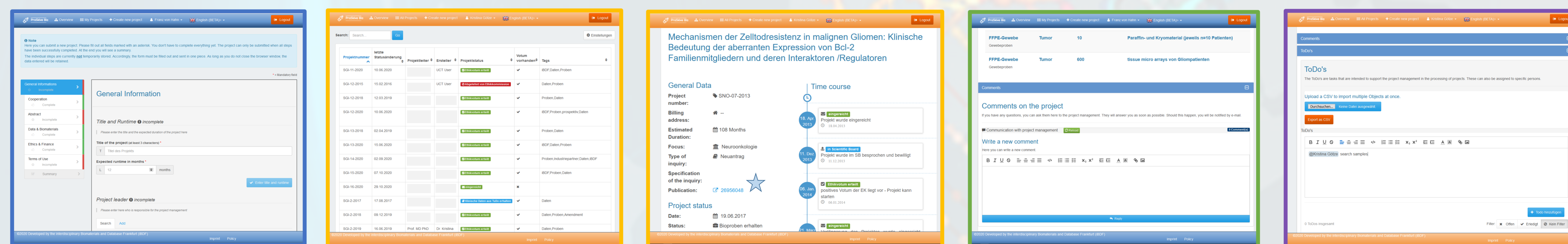
- ★ 1. online submission of project proposals
- ★ 2. user-related project-view
- ★ 3. overview of all projects in which a user is involved as project lead or cooperation partner
- ★ 4. tracking of the current project status
- ★ 5. project related communication via comment function

- 6. e-mail notification of changes to the project, project status updates or new project-related comments
- ★ 7. assignment of person- and project-related tasks (ToDos) for biobank employees
- 8. export of project-related data to the BIMS for facilitated sample and data delivery

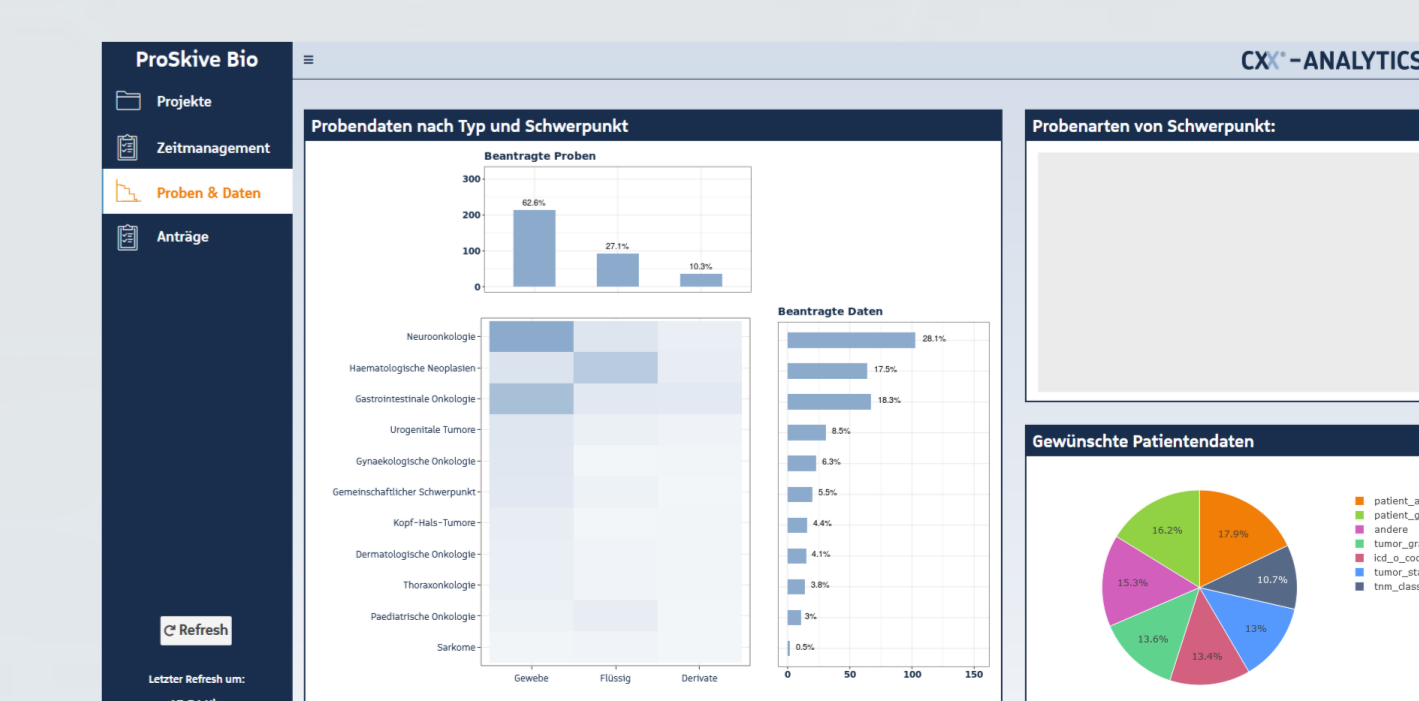
ProSkive-Bio simplifies initiation and tracking of project proposals and replaces the previous paper-based solution. In the last months we linked ProSkive-Bio to citation libraries (PubMed) for project-related publication-tracking and established a ProSkive-Bio to ProSkive-Bio interface which allows cross-location project administration. The different systems synchronize specific projects as well as single changes made during project approval and realization.

OUTLOOK

ProSkive-Bio in its current form allows the biobank to track biobank application from project submission, approval and sample delivery until project completion and project-related publication-tracking. In the future, we are planning to include a service that enables cost calculation and billing of biobank services. This would enable the biobank to have all relevant tasks in one easy-to-use software solution.



Using RStudio's Shiny and the structured data stored in the ProSkive-Bio database key performance indicators (KPI) can be determined easily.



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