

Genetic Information Management Suite

by bio.logis

Comprehensive end-to-end solution for PGx

bio.logis Genetic Information Management GmbH

Official provider for



www.biologis.com

Editorial

Personalized medication as an important sector of personalized medicine is using an individual genetic makeup to guide optimal drug and dose selection.

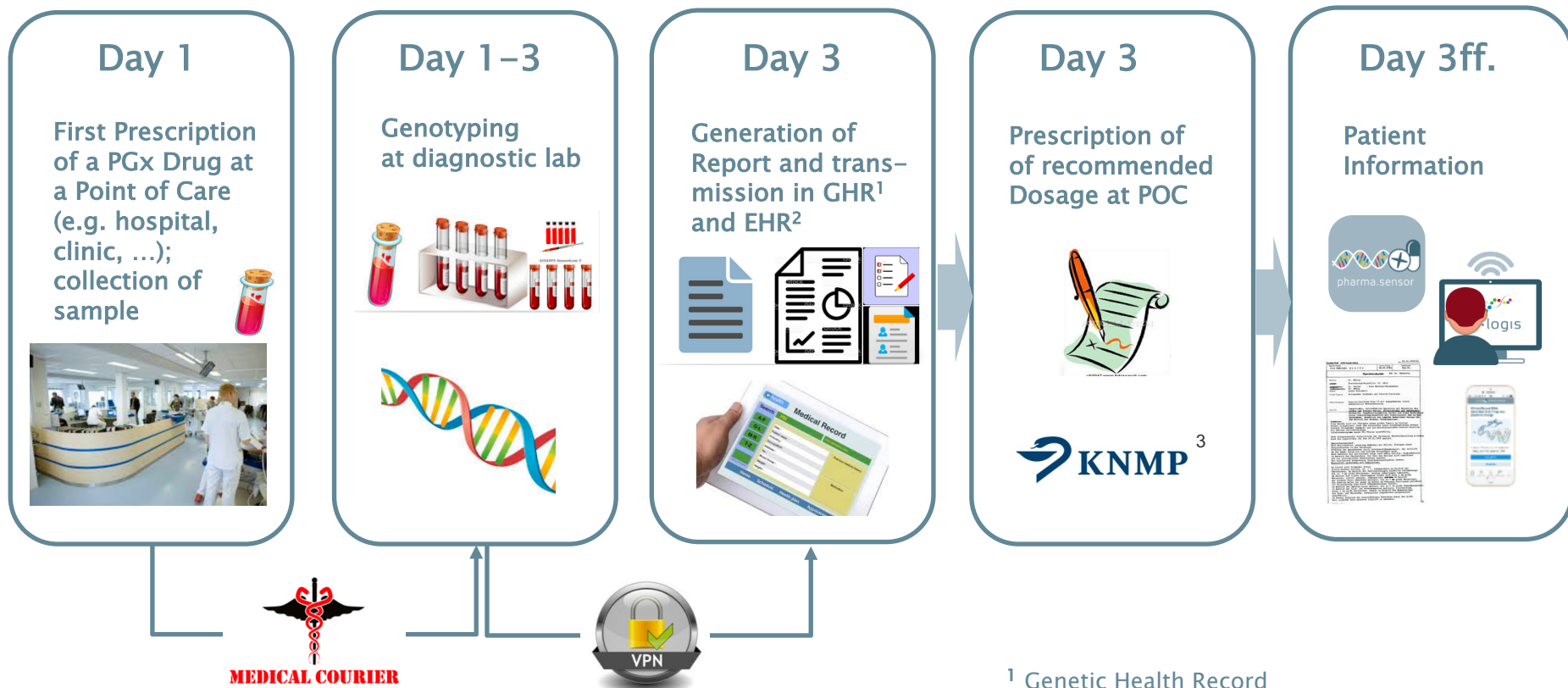
The goal of Pharmacogenomics (PGx) guided prescription of drugs is to replace the traditional “trial and error” method and promises

- Avoiding of Adverse Drug Reactions (ADRs)
- Safer and more effective drug response
- Cost-effective drug treatment

To support this, bio.logis developed the easy to adopt workflow solution **GIMS.pharma** for individual preemptive pharmacogenetic testing.

Preemptive pharmacogenetic testing in clinical routine

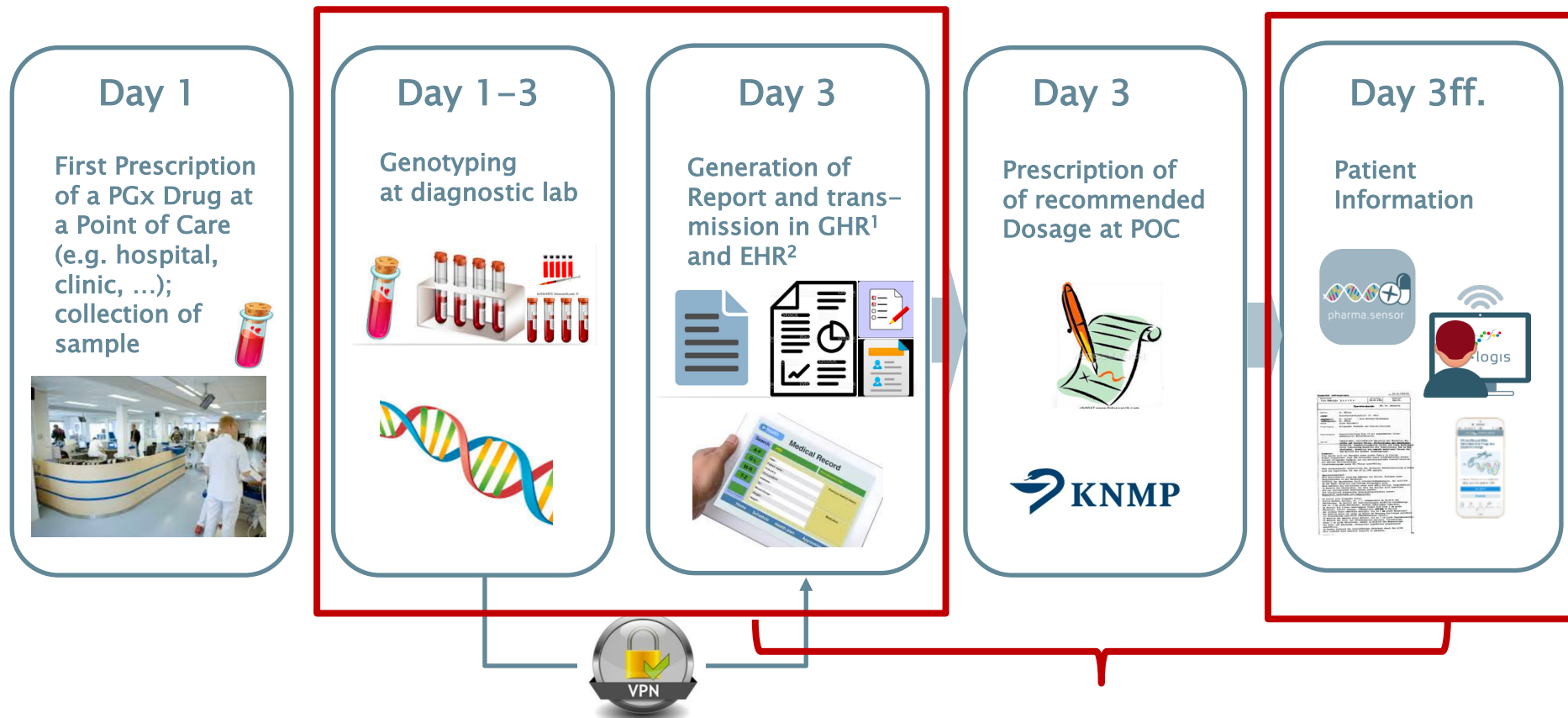
General workflow



- ¹ Genetic Health Record
² Electronic Health Record
³ Königlich Niederländische Pharmazeutische Vereniging

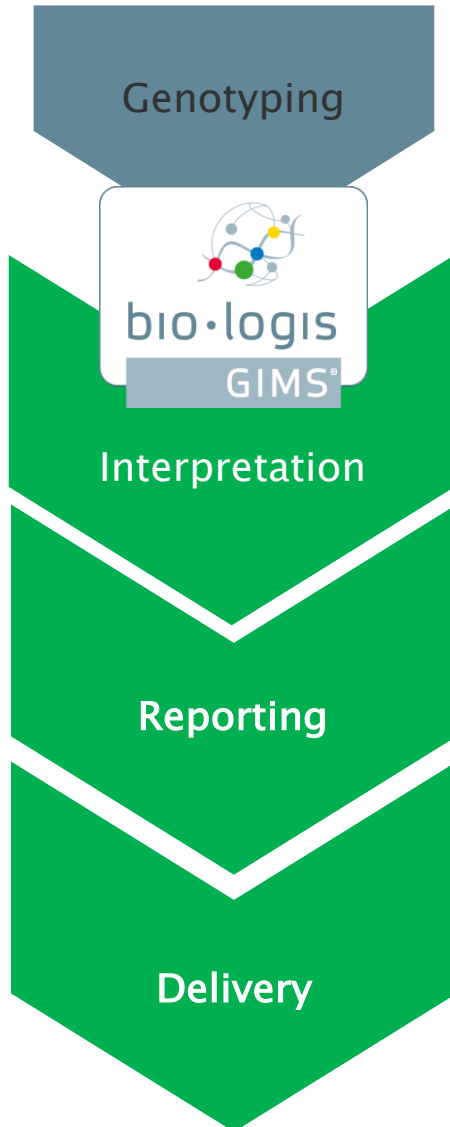
Preemptive pharmacogenetic testing in clinical routine

General workflow



supported by
bio.logis & GIMS

GIMS®: Genetic Information Management Suite



Efficient translation of genetic data into clinical practice

- Turnkey solution for pharmacogenomics
- Automated production of PGx reports with validated recommendations
- Access to results via web-based applications

GIMS.pharma Workflow – how it works

- Dedicated physicians at PoC collect blood samples from patients and send it to the Genetic Lab.
- Samples can be processed with any genotyping platform (e.g. TF Open Array, LGC-SNPLine) for targeted genotyping.
- Lab-results will be transferred via secure VPN-connection into bio.logis GIMS for production of diagnostic reports including validated clinical interpretation and dosing recommendations
- Diagnostic reports will be transferred into any LAB-system for medical validation (e.g. GLIMS, imed, Xpro...).
- Validated reports will be provided via printed documents and digital media to referring physicians and patients at any PoC.

GIMS®-Modules



Diagnostic Report Module

- Efficient management of diagnostic content (interpretations, descriptions, graphs, etc.)
- Automated production of diagnostic reports

CE Certified as
Medical Device Class I



Delivery Module

- Delivery and presentation of genetic test results through web-based applications at Point of Care

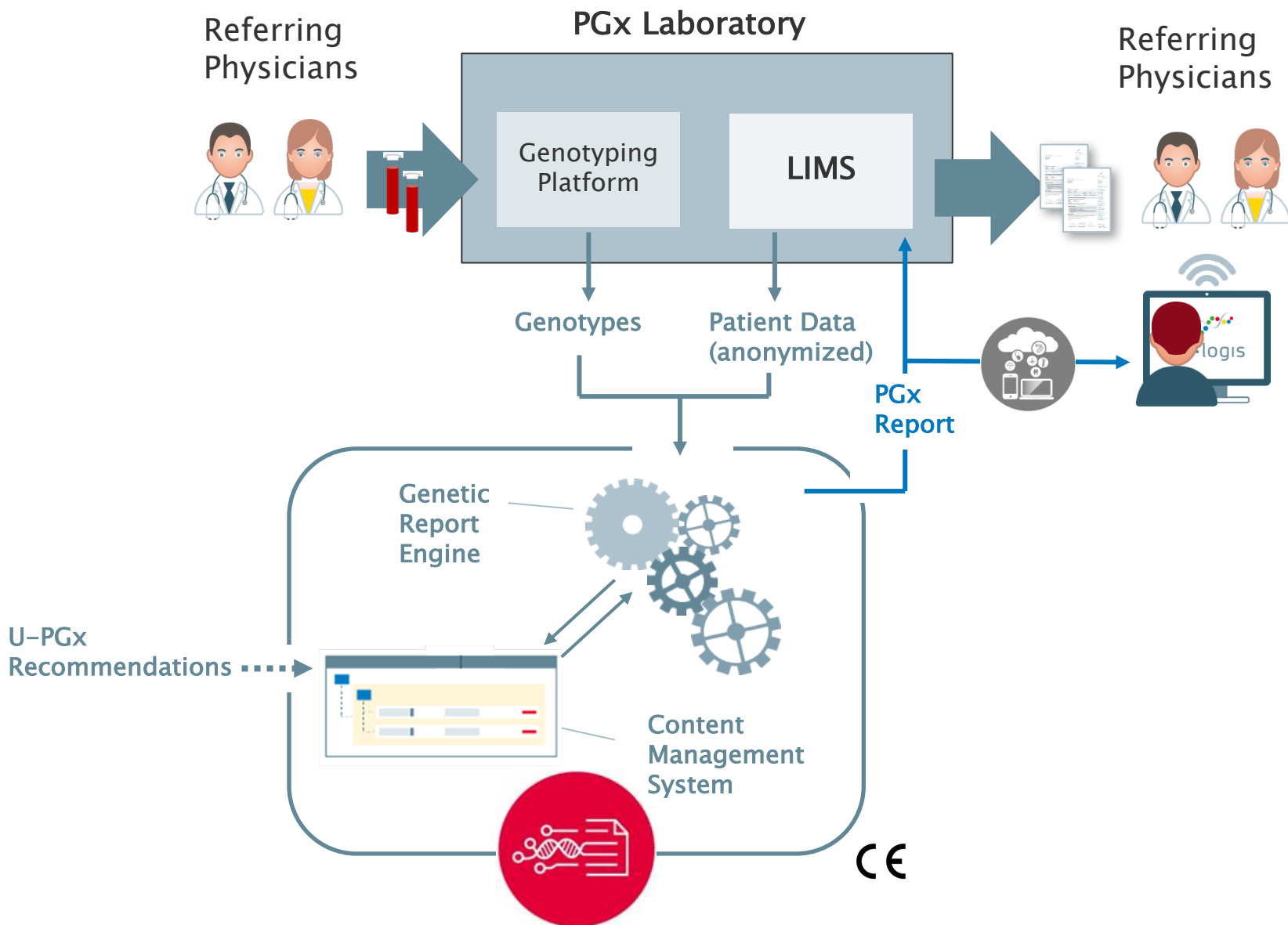


Knowledge Management Module

- Structured documentation and sharing of variant assessments, decisions and reference information
- Decision support for diagnostic reporting



Diagnostic Report Module





Diagnostic Report Module

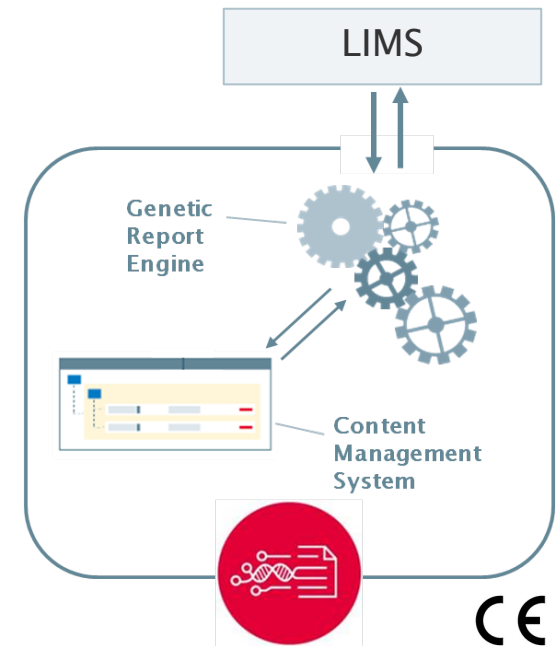
Most efficient production of diagnostic reports

Efficient management of diagnostic content

- Fully functional Content Management System
- Creation and management of content in one central entity

Automated production of diagnostic reports

- Automated allocation of content to incoming results
- Significant time savings
- Standardized format, wording, quality





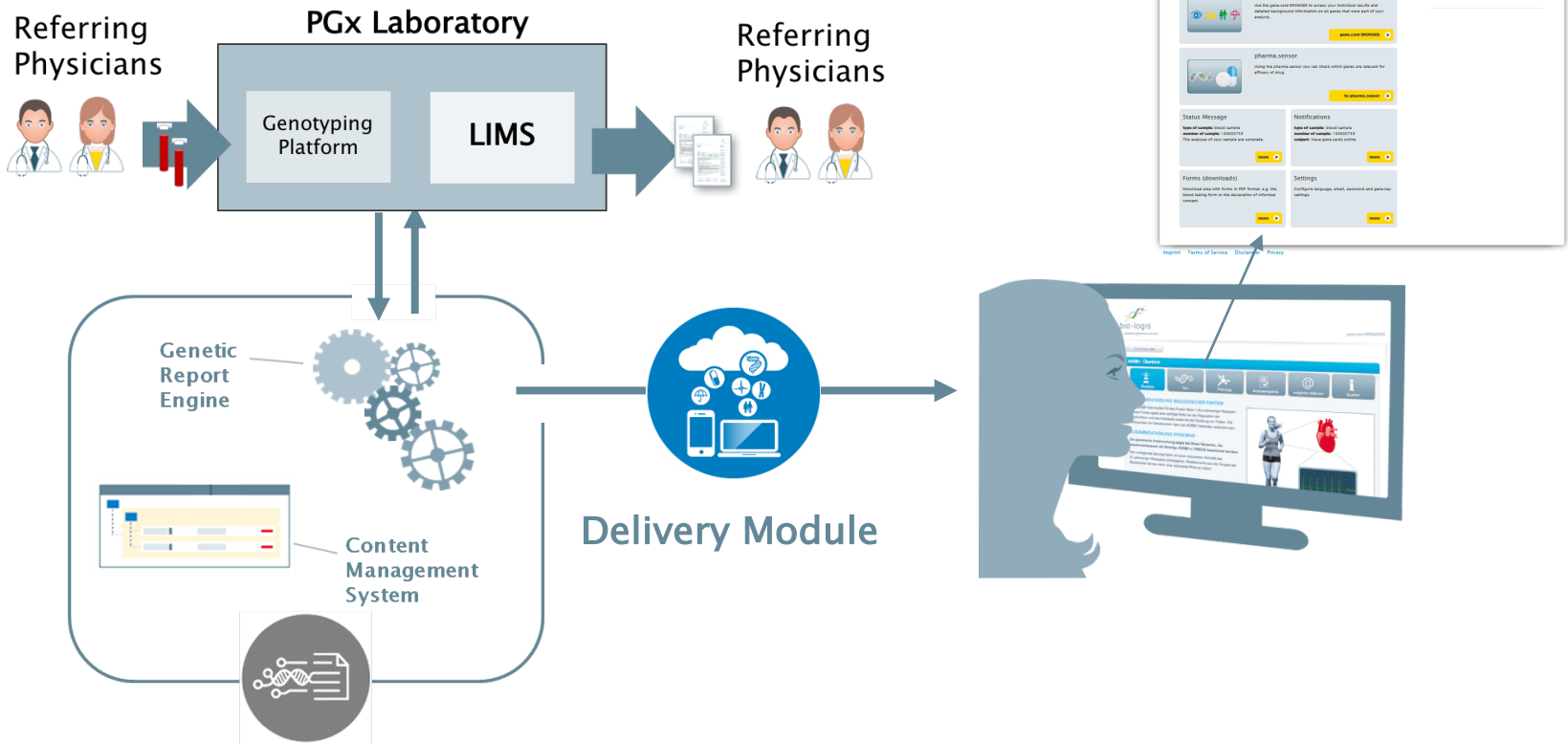
Diagnostic Report Module

Where's the value?

- **Automated production of diagnostic reports**
 - Significant time savings through automation of manual work steps
- **Fully functional Content Management System**
 - Compilation and management of diagnostic content in one central entity with clear-cut workflows
 - Every user has access to the same, up-to-date contents – standardized format, wording, quality for diagnostic reports
 - Preservation of Know-How in case of personnel turnover
- **Compliance with international data security regulations**
 - Hosting in high security health care data center of Deutsche Telekom
 - CE-Certification as Medical Device Class I



Delivery Module





Delivery Module

Digital delivery and presentation of results and information

Customer-branded web-portal and mobile app

- Automated compilation of Genetic Health Records
- Additional communication channel



Results always available and up-to-date

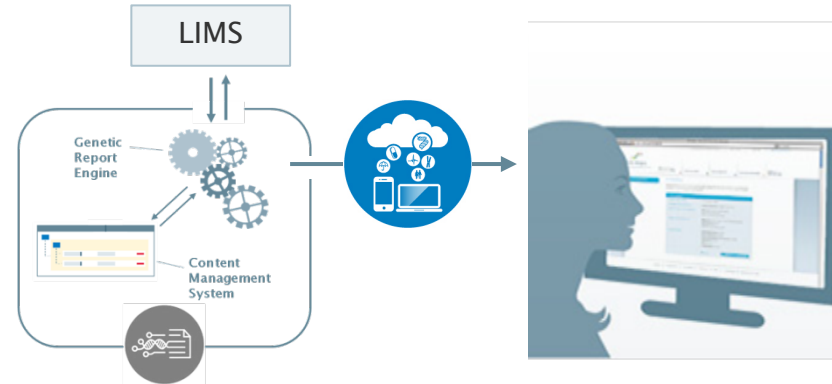
- Production of diagnostic reports in real-time
- Alert function when new information is available



Delivery Module

Where's the value?

- Supports **customer retention** by providing results in an easily accessible way
- **Real-time generation of Diagnostic Reports within Genetic Health Record**
 - Reports always up-to-date
- **Alert function** when new reports, information, etc. are available
- Include important **medical information, knowledge, references, etc.**
 - Portal contents customizable to customers requirements
- **Direct integration into EHRs possible**



Benefits at a glance

- **Automated production of diagnostic reports**
 - Significant time savings through automation of manual work steps
- **Fully functional Content Management System**
 - Compilation and management of diagnostic content in one central entity with clear-cut workflows
- **Structured documentation process with clear-cut workflows**
 - Makes decision process transparent and reproducible
- **Enhanced delivery of results and clinical information at *Point of Care***
 - Secured user access for patient and physician through customer-branded web-portal



- EU-funded project within the Horizon 2020 program
- Aiming to support the implementation of pharmacogenomics in clinical practice
- bio.logis GIM responsible for implementing GIMS at 7 selected hospitals across Europe



European
Commission

Horizon 2020
European Union funding
for Research & Innovation



Servicio Andaluz de Salud
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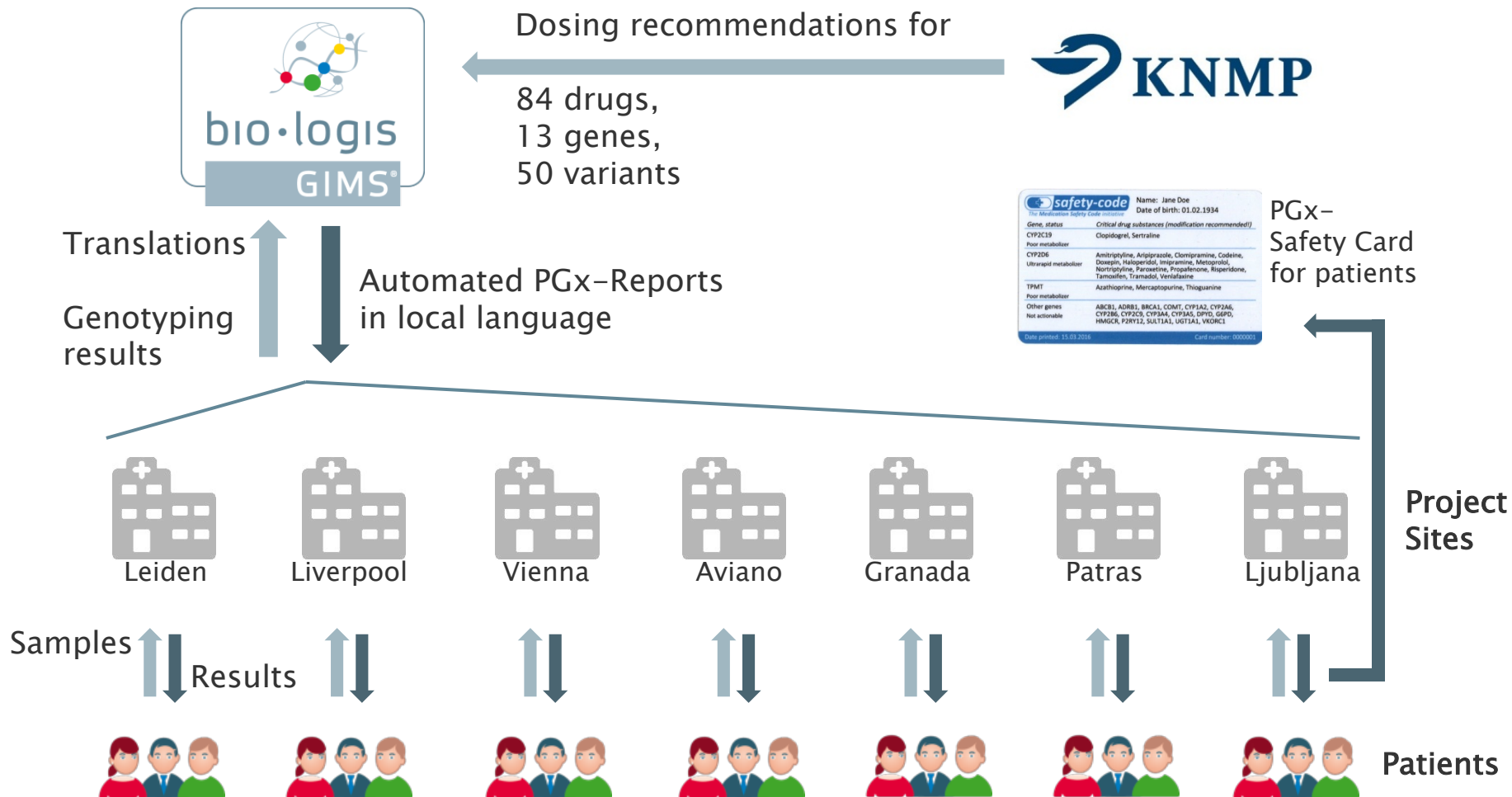
Univerza v Ljubljani



Leids Universitair
Medisch Centrum



U-PGx | Ubiquitous Pharmacogenomics



translating DNA into health

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