

IHI Call Days | Call 12

Oral biomarkers for early detection and monitoring of systemic disease (OBioMar)

Contact person name: Matthias Born/Sinem Tas

Organisation: Philips, COCIR

E-mail: matthias.born@philips.com

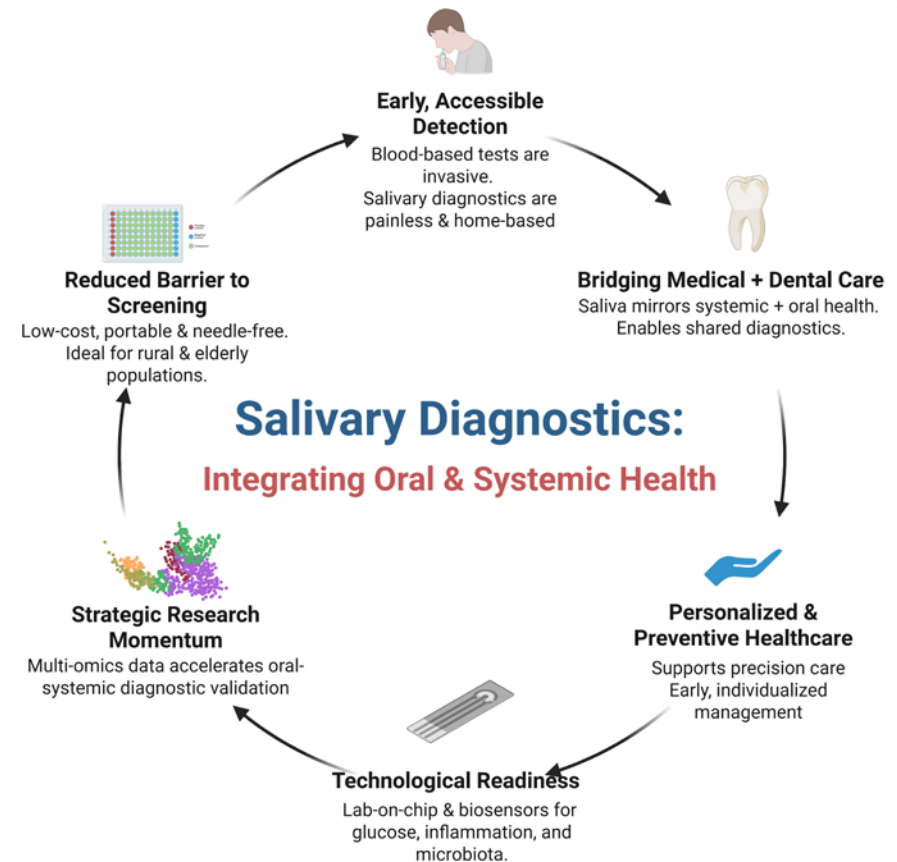
sinem.tas@philips.com

Link to the IHI brokerage platform: [IHI12-OBioMar](#)

Challenges and objectives

Diabetes- The Hidden Crisis

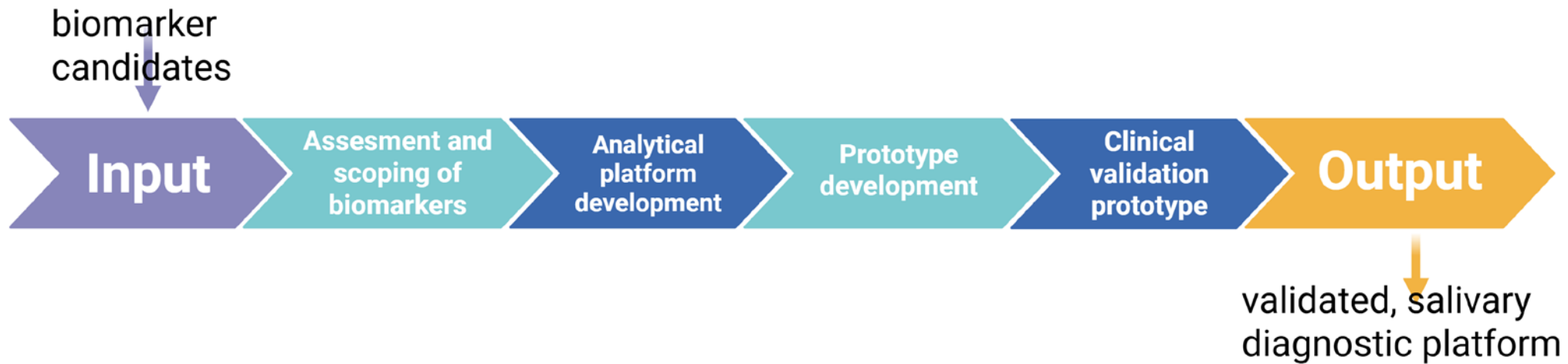
- **700 million people by 2045:** a growing silent pandemic.
- Often **undiagnosed until complications** (heart, kidney, oral) appear.
- **Strong two-way link** with periodontitis, each disease worsens the other.
- **Current tools** rely on **invasive, clinic-based blood tests**, limiting early detection.



OBioMar Approach

Project Aim and Vision

We aim to develop a **validated salivary diagnostic platform** for **early, non-invasive**, and **large-scale detection** of diabetes and periodontitis. This innovation unites oral and systemic health, advancing precision prevention and personalized care.



Outcomes and Impact



For patients

- Enables **early, painless, and home-based detection** of diabetes and periodontitis.
- Empowers individuals through **continuous, non-invasive monitoring** and personalized prevention



For clinicians

- Provides an **easy-to-use, evidence-based diagnostic tool** integrating oral and systemic biomarkers
- Enhances **interdisciplinary collaboration** between dental and medical professionals
- Supports **precision treatment planning** and follow-up using real-time salivary data.



For healthcare systems

- Promotes preventive and predictive care, reducing costly late-stage complications of diabetes and periodontitis.
- Enables **large-scale population screening** with minimal infrastructure.
- Improves **resource efficiency** and supports a shift from reactive to proactive healthcare.



For EU

- Strengthens **public health resilience** through accessible, technology-driven diagnostics.

Expertise and resources

Expertise

- Clinical partners (Dentistry)
- Industrial Partners (Oral Healthcare and Assay Development)

Missing Competencies

- Pharma partner
- Clinical partners (diabetes/hospitals)
- Point of Care Device Engineering
- Regulatory/HTA partner
- Patient organization
- Professional organizations

Philips: IKOP+ IKAA contribution