



PROBLEM

Diabetes a global health challenge,

- Switzerland, half a million
- Type 1 Diabetes 10%
- Diagnosis at a very young age
- Insulin therapy
- Prevents long-term complications
- Data recorded to different places



SOLUTION:

dataMosaic – Seamless data Integration / Innovation in digital space

NEED

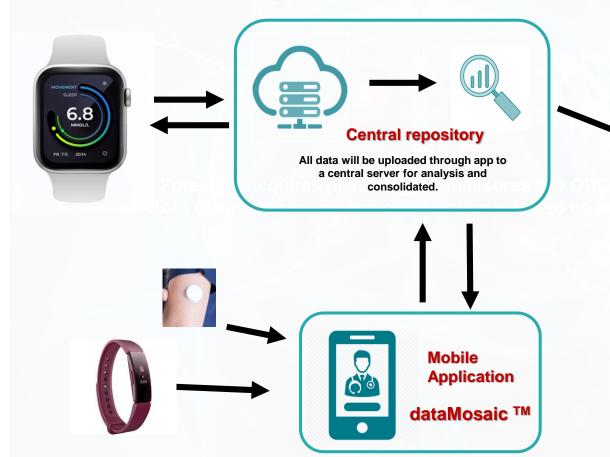
Review of data needed

- To understand glucose trends
- Identify issues
- React and provide help
- Adjust insulin dosage

- Pair sensor data with self reported data to improve prediction
- Mine complex data relationships
- Use Data-driven recommendations
- Prode automatic control with AI

Proposed Solution







Receives digital reports for both offline or online consultations.

Health care

Professional

dataMosaic – supported services



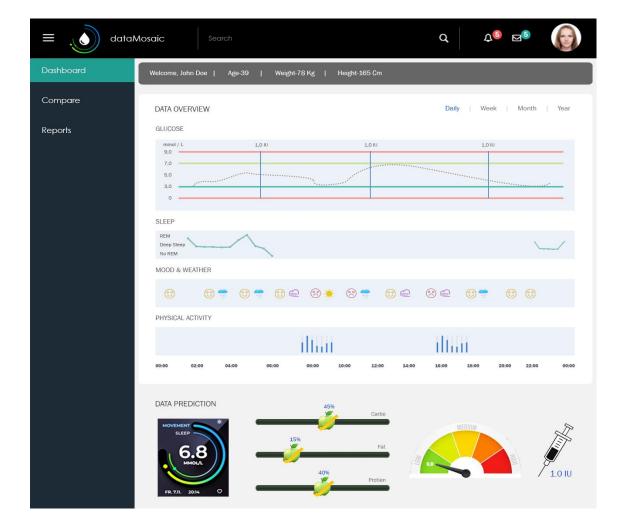
Smart Watch	Smart Phone	lpad / Desktop
Арр	Арр	
	Dashboard	Dashboard
Alarm	Alarm	Alarm
Diet plan	Diet plan	Diet plan



Daily View

- 24 hours overview
- Glucose
- Sleep
- Weather
- Mood
- Physical Activity

- Insulin Dosage
- Carb
- Fat
- Protien
- Glucose predicted



Weekly View

- 7 days stacked
- Glucose 24 hrs view

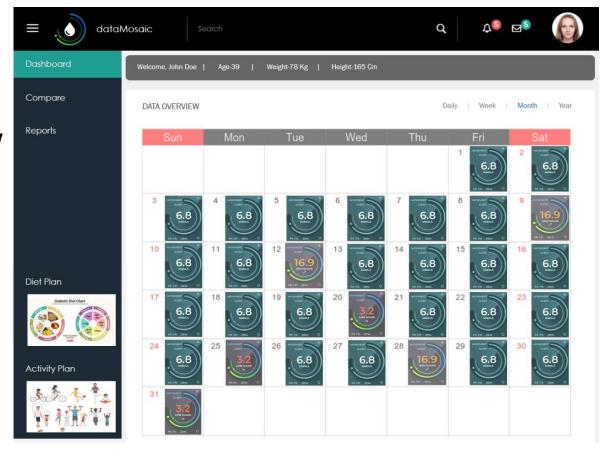
- Diet plan Weekly
- Physical Activity



Monthly View

- 7 days stacked
- Glucose 24 hrs view

- Diet plan Weekly
- Physical Activity



Alarms

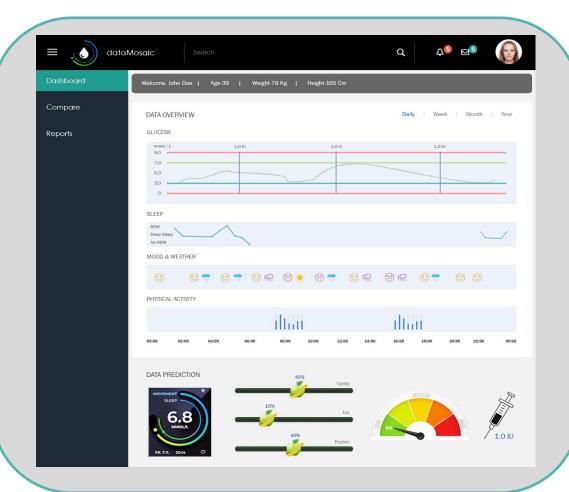






dataMosaic

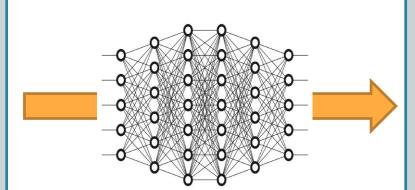






Prediction of lifestyle parameters using Al

- Patient details (age, gender, condition)
- Blood Glucose
- Activity
- Diet
- Weather
- Mood



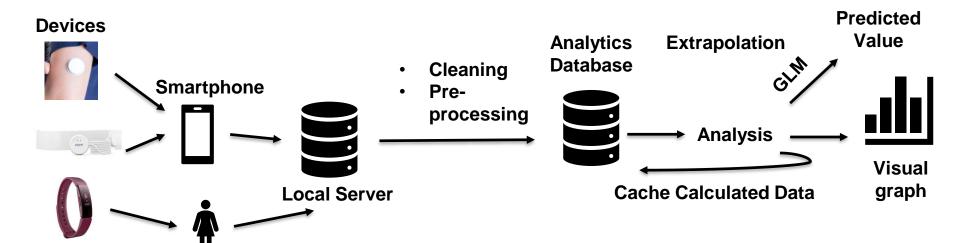
- Insulin dosage
- Blood
 Glucose
 level for next
 few hours
- Activity
- Diet

Under the hood

i/p

What we did / achieved

Humans



Summarise / Advantages

- Patient-centric/specific
- Diet plan
- Activity plan
- Interoperability of data
- Reduce patient burden
- State of Art Al









Upcoming features

- Sticky notes on views
- Carbohydrates intake
- Views interactive, clickable
- Food info through photo

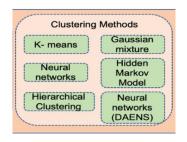




Future Roadmap



- Other Predictive analytics
- Larger data for validation
- Collaborating with other tools
- Extending to other disease
- Finding accelerator programs
- Data security and GDPR





Team - dataMosaic





Prabitha Urwyler Researcher | BioMedical



Alex Kononov **Data Scientist**





Kamal Kannan **UX** specialist



Patient Champion E.H Input



Victor Media



Peter Hummel UI specialist

Challenge Merlin Mosaic Measurement of casual factors

Solution – dataMosaic Integrated data (glucose, diet, sleep, activity, mood) visualisation and analysis (alarm, prediction) to help Type 1 diabetes patients understand and manage their day-to-day activities, diet and insulin dosage.



Aletta van Eeden Health Coach

Contact us – dataMosaic



Innovate in digital space

Join us

- Data Security
- Machine learning
- Regulatory

Developers purwyler@gmail.com

Prabitha Urwyler 🖂

https://2020.healthhack.solutions/project/72

Hook: Low / High