June 27, 2018 – Brussels - #YESbxl

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YES
Youth Entrepreneurial Spirit

YES
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Improving public health through success in school

An innovative project in Angered, Gothenburg with support from Vinnova

Barbara Rubinstein, Region Västra Götaland, Sweden

VÄSTRA GÖTALANDSREGIONEN

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The project

Use data related to student attendance in elementary school

↓

Make a detailed prediction about the future school attendance

↓

Insert the correct action depending on reasons behind previous cases of school absence

↓

Increase school attendance

↓

Increase high school qualifications

↓

Improve public health

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Project partners

Academia

- LINKÖPINGS UNIVERSITET
- Institutet för FRAMTIDSSTUDIER
- Karolinska Institutet
- GÖTEBORGS UNIVERSITET

Public Sector

- Göteborgs Stad
- VÄSTRA GÖTALANDSREGIONEN
- Sveriges Kommuner och Landsting
- Angereds gymnasiet

Private Sector

- IVBAR
- PING PONG

A collaborative project with financial support from VINNOVA

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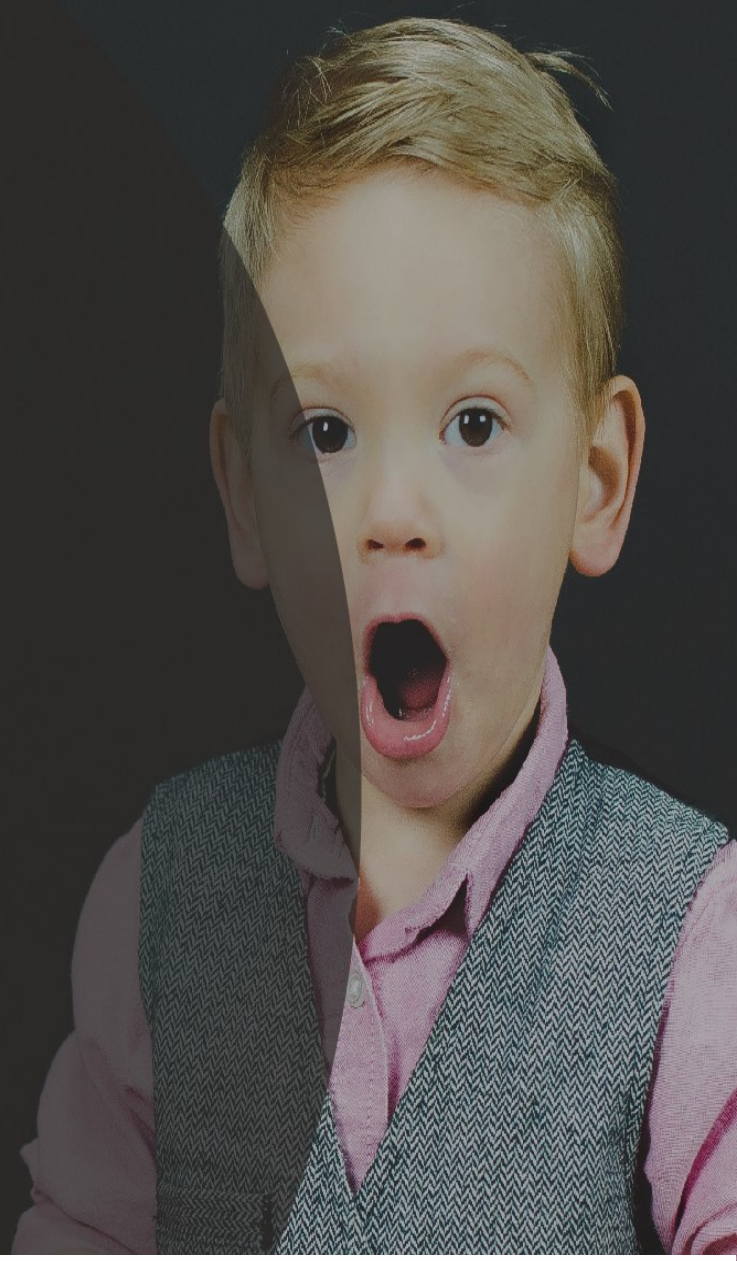
PING PONG

What does the tool look like?



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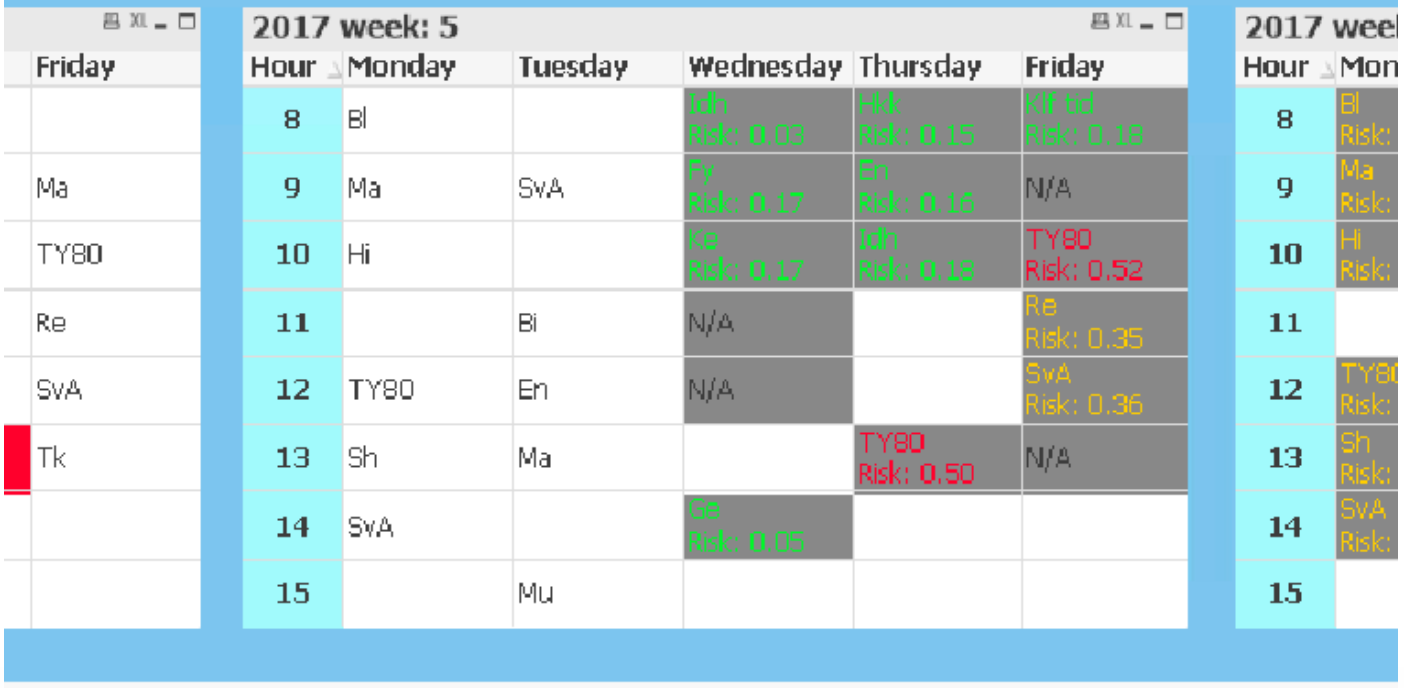
Complex codes create the attendance tool of the future

Wednesday week 5:
Predicted risk of school absence in the coming week



Friday
Ma
TY80
Re
SvA
Tk

2017 week: 5

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
8	Bl		Idh Risk: 0.03	Hkk Risk: 0.15	Klf Gd Risk: 0.18
9	Ma	SvA	Fy Risk: 0.17	En Risk: 0.16	N/A
10	Hi		Ke Risk: 0.17	Idh Risk: 0.18	TY80 Risk: 0.52
11		Bi	N/A		Re Risk: 0.35
12	TY80	En	N/A		SvA Risk: 0.36
13	Sh	Ma		TY80 Risk: 0.50	N/A
14	SvA		Ge Risk: 0.05		
15		Mu			

2017 wee

Hour	Mon
8	Bl Risk:
9	Ma Risk:
10	Hi Risk:
11	
12	TY8 Risk:
13	Sh Risk:
14	SvA Risk:
15	

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Närvaro

Search

F

- **Frånvarorisker**
- Dagens frånvaro
- Åtgärdat

Mentor

- Rapporter
- Elevlistor
- Registrera frånvaro
- Registrera för andra
- Inställningar

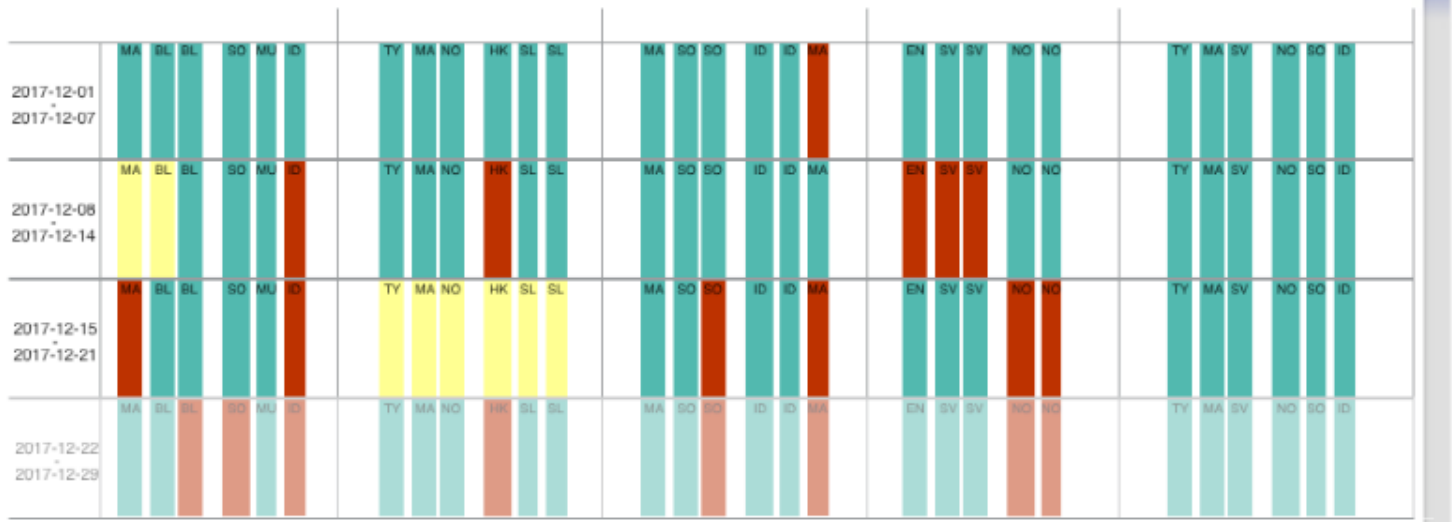
Frånvarorisker

Elin Eriksson

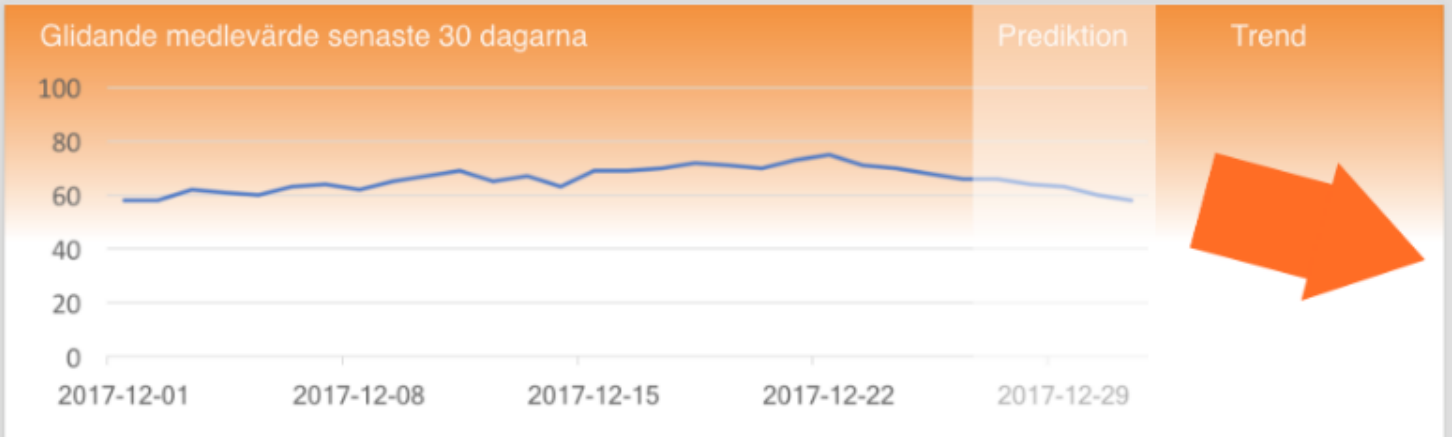
Fri 9 Feb

MA RE SV EN FY ID

Närvaroöversikt



Närvarotrend



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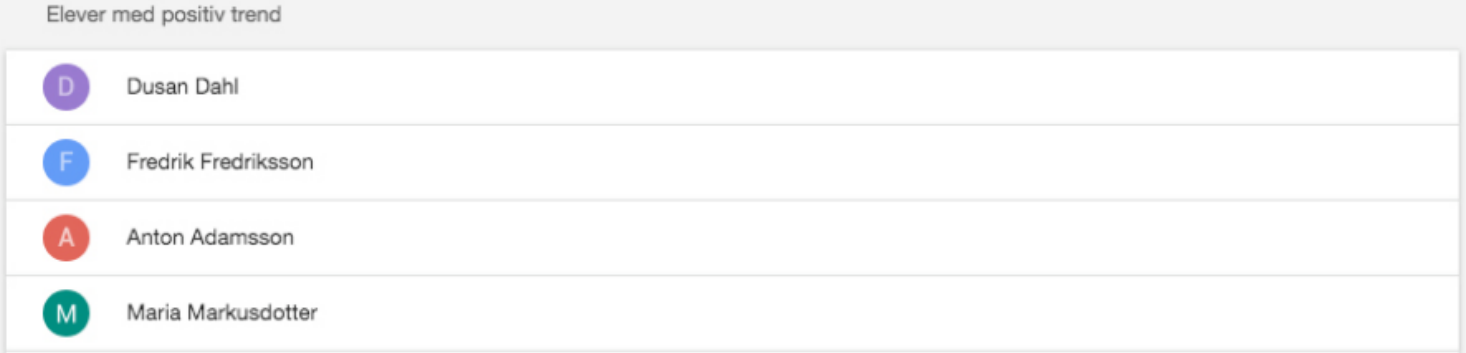
What is done on the individual level?



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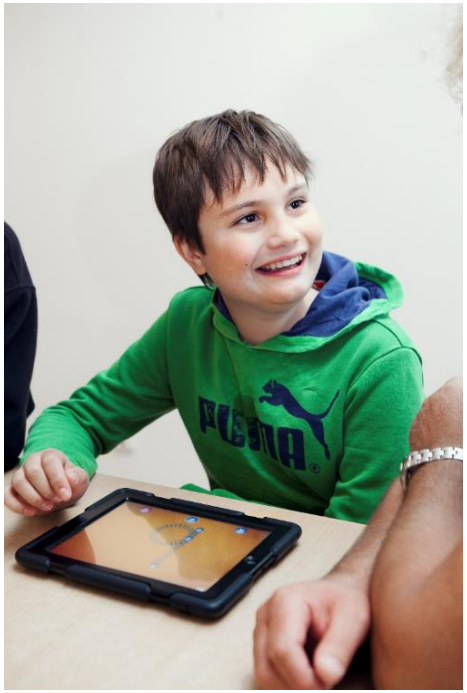
A project developed in close cooperation with the users

The work is being done by developers along with input from

- Teachers, mentors and principals
- Pupils and parents
- Researchers
- Student Health coordinators
- Public sector



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Pilot study

- Check if the tool works with sharp data
- Receive feedback from the users on the interfaces

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Autumn 2018

- Start usage for selected mentors
- Feedback (every other week)
- New version, prediction model and/or interface (every other week)
- Continuous participation, same teachers,
- A production-ready tool at the turn of the year
- Begin development of a student app in order to collect additional data

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Spring 2019

- Begin testing of the student app
- Use data from the student app in the algorithm
- Create reports for the school principals
- Iterative process together with a group of school principals

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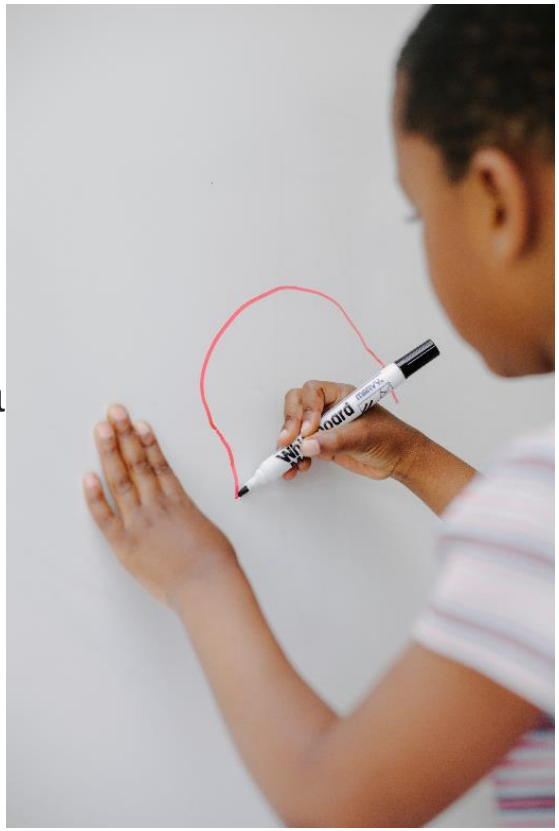
Challenges

- Communication between different sectors (i.e. different cultures)
- To bring health-promoting work into the school sector
- It takes time to get access to both internal and external data
- To find solutions for transferring data between different systems
- The adjustments of the data for analysis is time consuming



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In accordance with Agenda 2030

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Thank you!

REGION VÄSTRA GÖTALAND

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