

# INNOVATUM



**esa** business incubation centre  
Sweden

**INNOVATUM**

SPACE INCUBATOR

**VOLVO  
AERO**



move your mind™

**VATTENFALL**



**SKANSKA**



**IFMETALL**

Norra Älvsborg



VÄSTRA  
GÖTALANDSREGIONEN



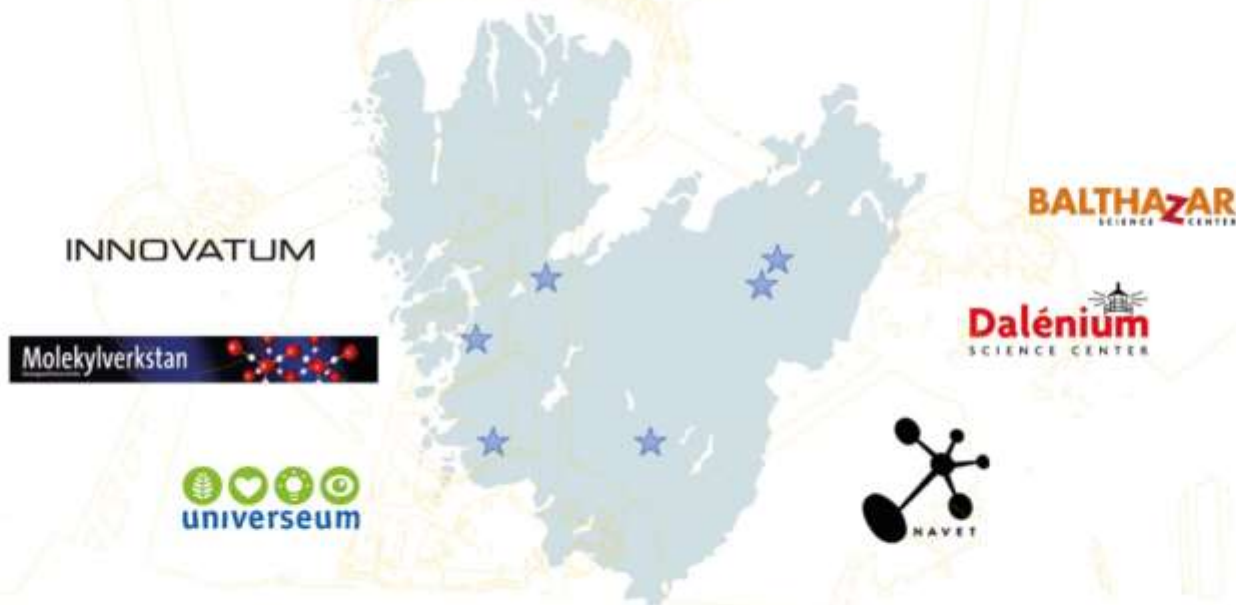
Trollhättans Stad



# SCIENCE CENTERS

## WESTERN SWEDEN

- 1,7 M visits yearly ● 300k students
- 19 science centers in Sweden; 6 in Western Sweden
  - Reaching students-teachers-public
  - Digitalisation/programming Integration



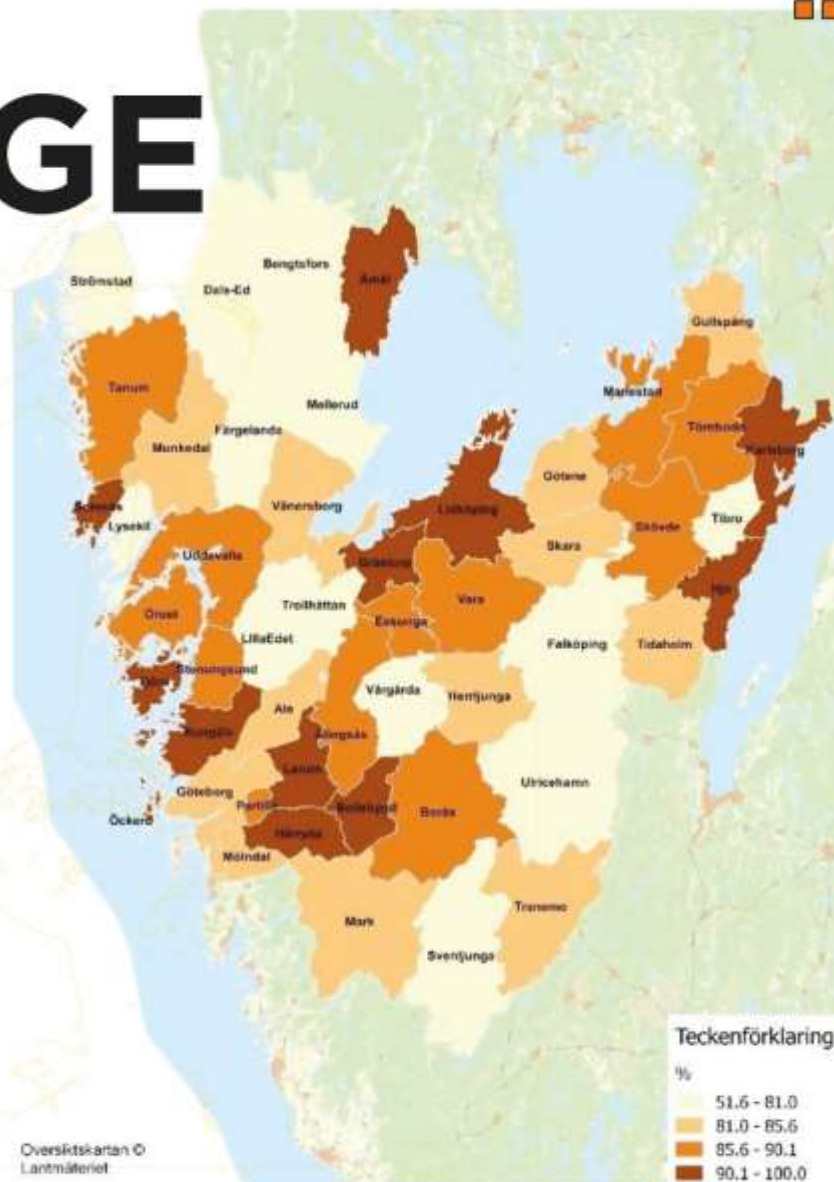




# CHALLENGE

## WESTERN SWEDEN

Almost 30%  
not qualified  
for national  
programmes in  
upper secondary  
school





# CHALLENGE

## WESTERN SWEDEN

”Drop-outs” 11%

- 18-24 years
- Not studying
- Not finished upper secondary school education





# BIGGER DIFFERENCES

TODAY...

Municipality of Trollhattan and the differences between compulsory schools.

Students qualified for national programmes, upper secondary school studies:

● Example 1: 37%



● Example 2: 93%





# CHALLENGE

1st year students, in upper secondary school education Sweden





# WHAT CAN SCIENCE CENTERS DO?

Vision: All Students qualified for national programmes,  
in upper secondary school education!



# EMPOWER SKILLS THROUGH MINDSET

"Failure is an opportunity to grow"

## GROWTH MINDSET

"I can learn to do anything I want"

"Challenges help me to grow"

"My effort and attitude determine my abilities"

"Feedback is constructive"

"I am inspired by the success of others"

"I like to try new things"

"Failure is the limit of my abilities"

## FIXED MINDSET

"I'm either good at it or I'm not"

"My abilities are unchanging"

"I don't like to be challenged"      "I can either do it, or I can't"

"My potential is predetermined"

"When I'm frustrated, I give up"

"Feedback and criticism are personal"

"I stick to what I know"





# ENGAGEMENT - HANDS ON!





# SCIENCE CENTERS AND HANDS ON!

Additional learning environment  
Activities during school breaks  
and afternoons/evenings

- STEM-clubs
- Makerspace
- Programming
- Link to role models
- 21<sup>ST</sup> Century Skills











# THE NEXT STEP

- Make a difference!
- Support and/or add to already existing initiatives
- Find new collaboration partners and funding
- Local pilot projects
- Develop concepts for wider roll-out





# THE NEXT STEP

Thank's for listening!

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