# Interactive Snoezelen



Design processes as part of pedagogical developments

#### Henrik Svarrer Larsen

Interaction designer, Design lead, SID

PhD fellow (doktorand)
CERTEC, Design Sciences, LTH

Son with Asperger's ..i.a.



#### Snoezelen

Multi-sensory rooms; dedicated and controlled Demand free, <u>snuffelen/doezelen</u> People with autism, developmental disabilities, i.a.



# SID a project in Snoezelen

Sensuousness (sanselighed / sinnlighet)

Interactivity (things that senses and react)

Participation (delagtighed / delaktighet)



# SID project Set-up

CERTEC, FUB & Furuboda Kompetenscenter

Financed by Allmänna Arvsfonden, plus on the Danish side Gentofte Kommune.

3 years (tech-development de facto only 2) Ended July 2013









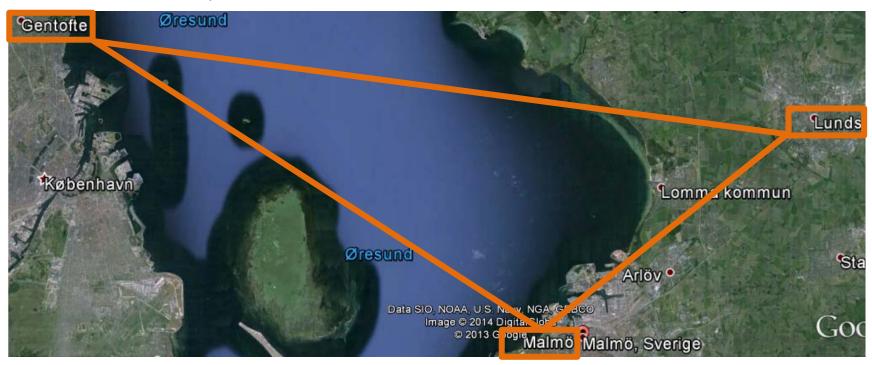






#### 3 x 4-7 children

Upplevelseshuset Safiren, Malmö Barn & Ungdomshabiliteringen, Lund Snoezelhuset, Gentofte



### Certec's credo

Everyone has the right to **benefit** from technology

Everyone has the right to **affect** the development of new technology

### SID's mission

Explore potentials in **interactive technology** to enhance Snoezelen and especially the children's agency and participation

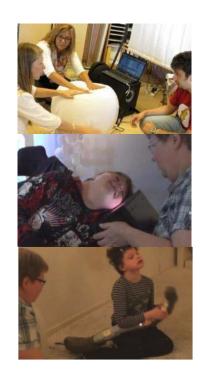
#### **OUTCOMES**

Pointing to design qualities by:

- -Design things
- -Rich descriptions of interplays

Reflections on

the role of interactivity in Snoezelen



### Certec's credo

Everyone has the right to **benefit** from technology

Everyone has the right to **affect** the development of new technology



### SID's mission

# Develop design processes to be *part* of developing the practice grounded in the children's perspective

#### **OUTCOMES**

Give examples of ways to

- ..co-develop design & pedagogics
- ..strengthen the children's role in the process

### SID's mission

Addressing:

Snoezelen-related staff / caretakers

**Buyers** 

**Designers** 

Providers/producers







#### Interactivity

(very briefly)

# Interactivity & experience

Through the interaction!



Who has communication issues?

# Interactivity & experience

Respond to what he does Engage 'væsen' / 'varelse'

..temperament ..character





#### Role in design process

Traditionally:

Informant Crucial decisions
Test person



Traditionally:
Informant
Test person

mere objects of observation



```
Traditionally:

Informant Crucial decisions
Test person
```

mere objects of observation

#### WHAT if

..the children could take center stage in inspiration, try-outs & debate ?

..in other words: in designerly processes

But how?

Standard participative methods for children (drawing, stories) just won't suffice

.and not *just* by proxy



# **Approach**

3 ways to promote the children's perspective in the design process:

- The children takes center stage by video
- All participants influence through doing
- > Mind-set:
  - Appreciative
  - Open, what if...





# By video

Everything literally starts with "here, he .."
..with the actions of the children

The staff records videos to present 'mind-tickling' videos as a basis for deliberations

# Appreciative mind-set

Long time involvement!

We start with what the children do / like / can ...

NOT what they can't (diagnoses and the like)

The positive (not from what is not there)
The concrete & rich

# **Appreciative mind-set**

Serves

\*Inspiration qualities, potentials ..not just facts

\*Debate embrace enigmas, raise prevailing concerns

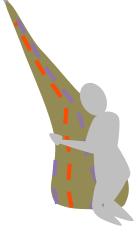
\*New actions design & pedagogics

Design as debate

# The story of 'HugBag'

#### Started with this boy





..and then he & Hug-Bag was part of SID



# Ways to promote debate

- Starting with the actions & desires of the children
- Pastiches:
   combinations of the existing
   with critical intent
- Adding what is NOT there
- Incremental ..if so, what then

# Designing WaterBed

Starting point:

Lifting one's bum ....just a little

waves => sound x 2 & push!!



# **Designing WaterBed**

We've fx debated (by trying out)

- o 'arousal-dance'
- Sense of own bodyas part of the experience
- How to relate
   to even the smallest of actions







# Ways to promote debate

- Starting with the actions & desires of the children
- Pastiches: combinations of the existing with critical intent
- Adding what is NOT there
- Incremental ..if so, what then

# The story of LivelyButton

There is plenty of push-buttons and lights

What if a 'button'

- ..moves
- ..lights up
- ..is exiting right here!









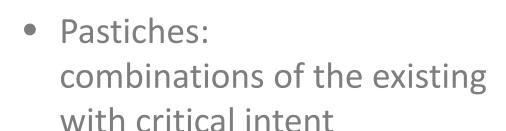
# The story of LivelyButton

We've fx debated (by trying out)

- o active touch / vibration / something moving
- Arousal dance ..behaviour over time
- Inner mystery and aiding attention
- From exploration to immersion

# Ways to promote debate

 Starting with the actions & desires of the children





- Adding what is NOT there
- Incremental ..if so, what then



# Ways to promote debate

- Starting with the actions & desires of the children
- Pastiches:
   combinations of the existing
   with critical intent
- Adding what is NOT there
- Incremental, yet.. if so, what then

# The story of MalleablePillow

#### Today:

Gel-balls with light

- \* Just ON/OFF
- \* Requires force













..the smallest or incidential poke could trigger...

.. the more I affect, the more light..



accessible & fan-ta-stic!!

# 3 aspects of Snoezeling

# 3 tentative aspects as the designs take part

- Support attention
   ..things calling, reminding, pointing...
- Inclusive basic interaction

Bodily engaging
Coupling cause & effect
Any which way / Anywhere

Immersion

Arousal dance
Exploration & mystery
Engulfed tranquillity









Check our web!

# Participation & agency

#### in Snoezelen:

- Affect stuff ..it reacts
   (I'm doing it)
- See oneself as actor in the interplay (I am)
- Engage through aesthetics/bodily feel (this is me)
- Take active part in the interplay (fx samgöra)









# Pedagocial developments

Pointing to potentials in a generative manner

Rich material

**Evocative** 



Check our web!

Larsen, H.S: , Hedvall, P-O (2012): Ideation and ability; when actions speak louder than words.

PDC conference paper

Löwgren, J.; Larsen, H.S.; Hobye, M. (2013): **Towards programmatic design research.** 

Research Journal,
Designs for Learning

Tangible participation; designerly engagements in pedagogical praxes dissertation (fall 2014)

Social Qrage 5/2013
Magasin / Vision

Teknik safari SVR 12.03.2013

## sid.desiign.org

