

Personalisation in POSEIDON

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POSEiDON

POSEIDON
project

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EU FP7

PersOnalized Smart Environments to
increase Inclusion of people with
DOWn's syNdrome

Main goal:
Increased quality of life,
independence and inclusion
of people with Down syndrome



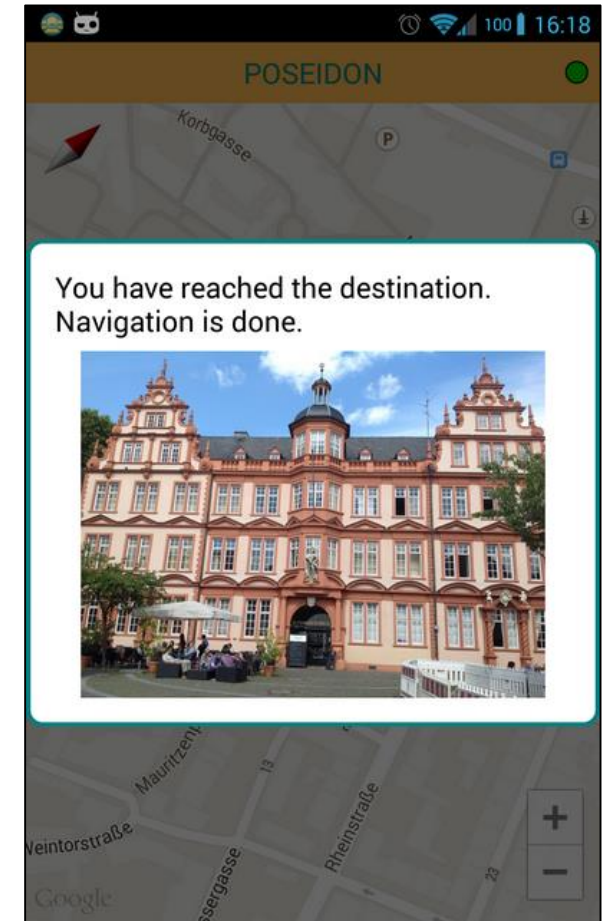
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Typical learning characteristics of children with Down syndrome

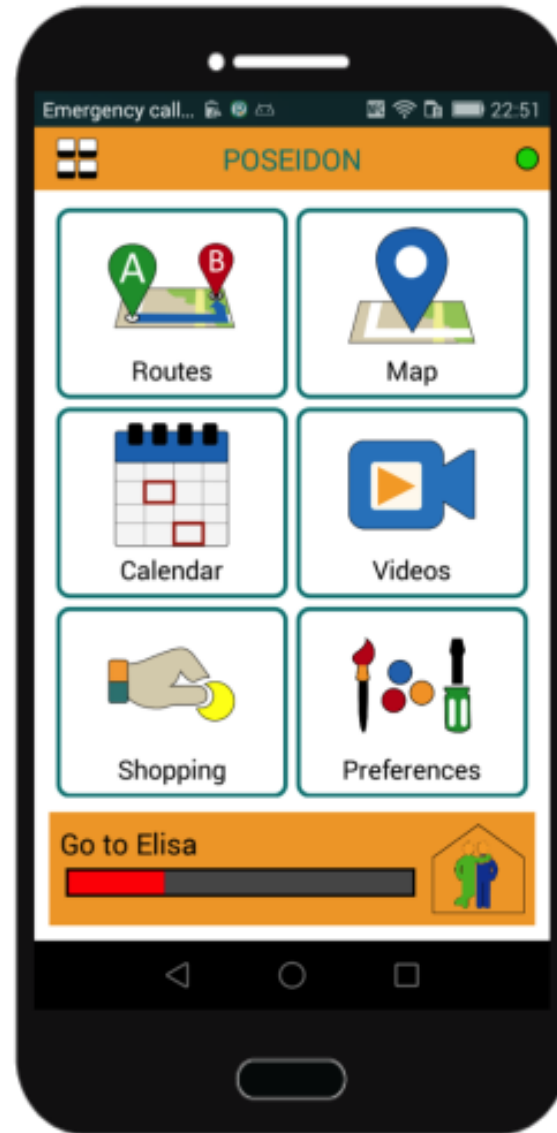
- Auditory short-term memory and auditory processing is an area of weakness.
- Auditory memory difficulties should be compensated for by the use of **visual supports and prompts wherever possible** (signs, pictures, words).
- Visual learning style – visual processing and visual memory skills are strengths.
- Reading is usually a relative strength, compared to oral language.
- Numbers can be an area of difficulty, focus should be on functional maths that is useful for everyday living.

How do we
work?

Workshops and
technology
experiments
together with
people with
Down syndrome



Main view of the primary end user's app

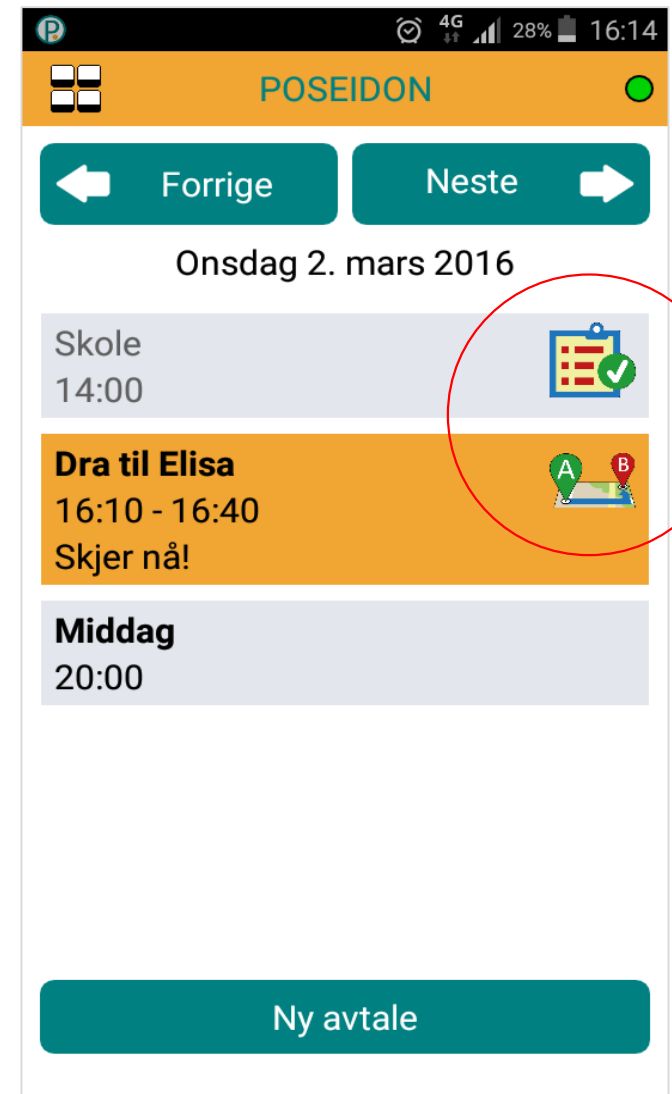


- **Routes** – Start navigation by using planned routes or a new route.
- **Map** – View current position on Google Maps.
- **Calendar** – View planned events and add new events.
- **Videos** – View YouTube videos that are uploaded by the carer.
- **Shopping** – Access the Money Handling Assistance app
- **Preferences** – Turn on/off position tracking and choose colour themes.

Supportive content in calendar events

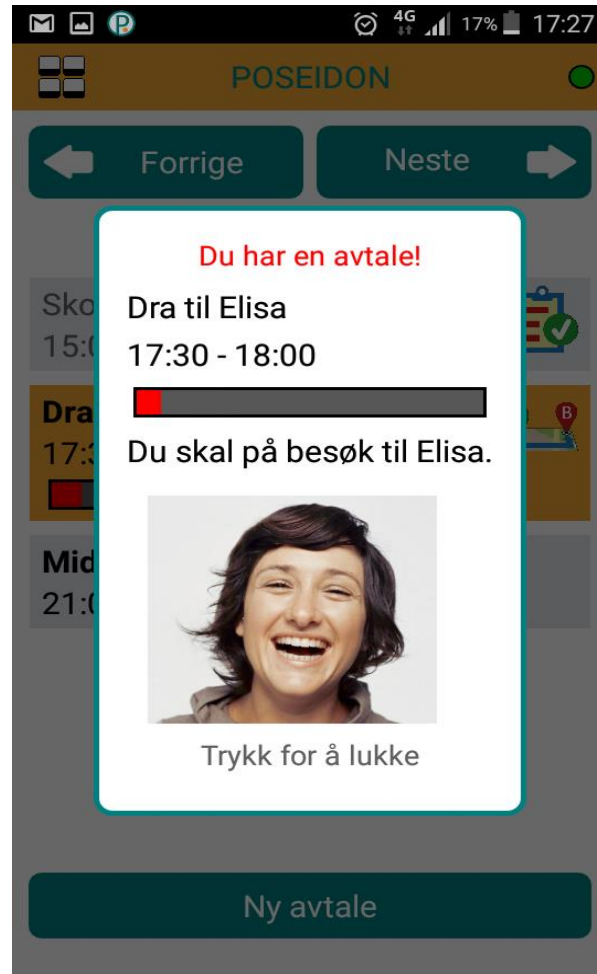
Carers can make personal calendar events with instructions by adding text, images, sound recordings and videos.

They can also add pre-defined routes (made in the Home Navigation app).



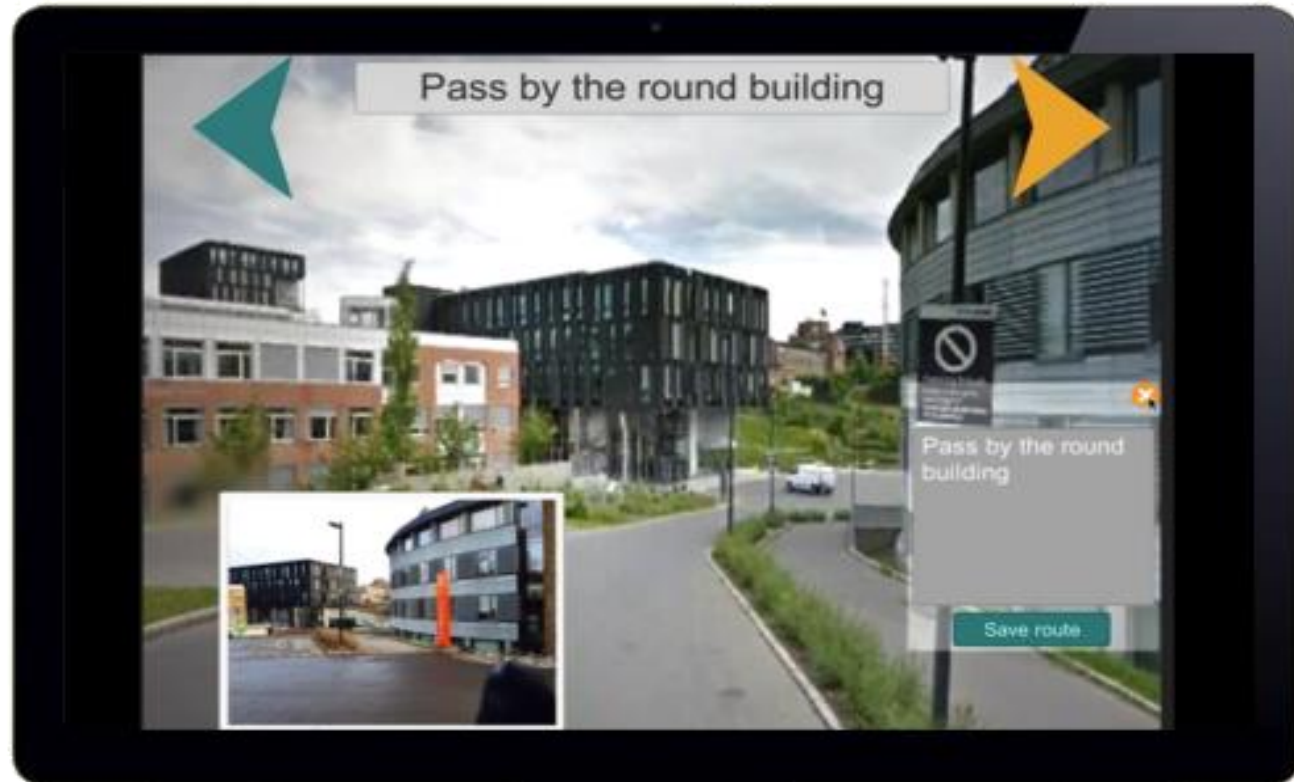
Carers may
upload
helpful picture
material
for visual
recognition

- Visiting a familiar person
- Going to a familiar place



Navigation
app:
picture
material and
advice in the
route

Maps and routes on maps can be concretised
and made personal according to their
particular knowledge of the environment:



The list functionality

Lists can compensate for working memory difficulty

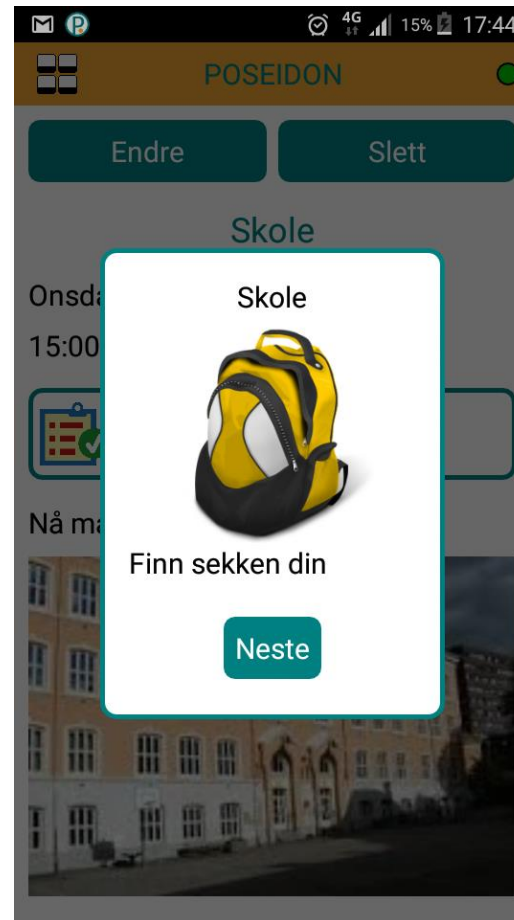
in a number of different situations, to include any items, for example:

- things to put in the school-bag
- steps to take during the morning
- shopping list



Lists with
images for
each list item

... or adding instruction list items to the event so that the end user recognises as her/his personal things to be taken along (e.g. when symbols are sufficient for recognition):



Voice
recordings

End users who need an additional modality in the calendar or navigation app, carers can record spoken messages or instructions.

Video recordings

Personal (carer made) video clips can be added to the calendar and also accessed through the list of videos on the home page of the POSEIDON mobile app.



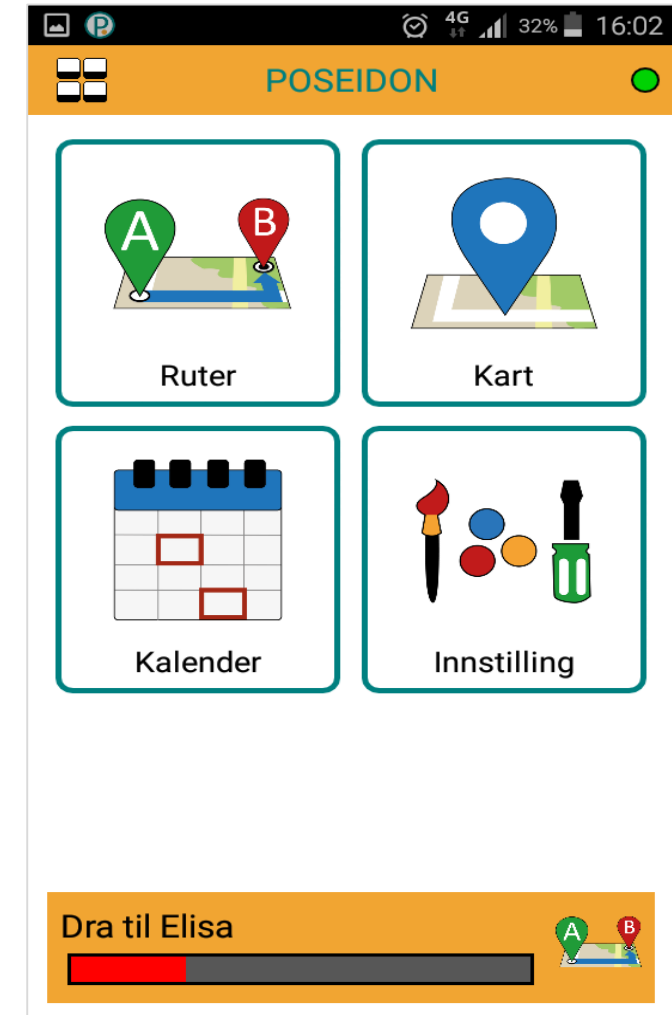
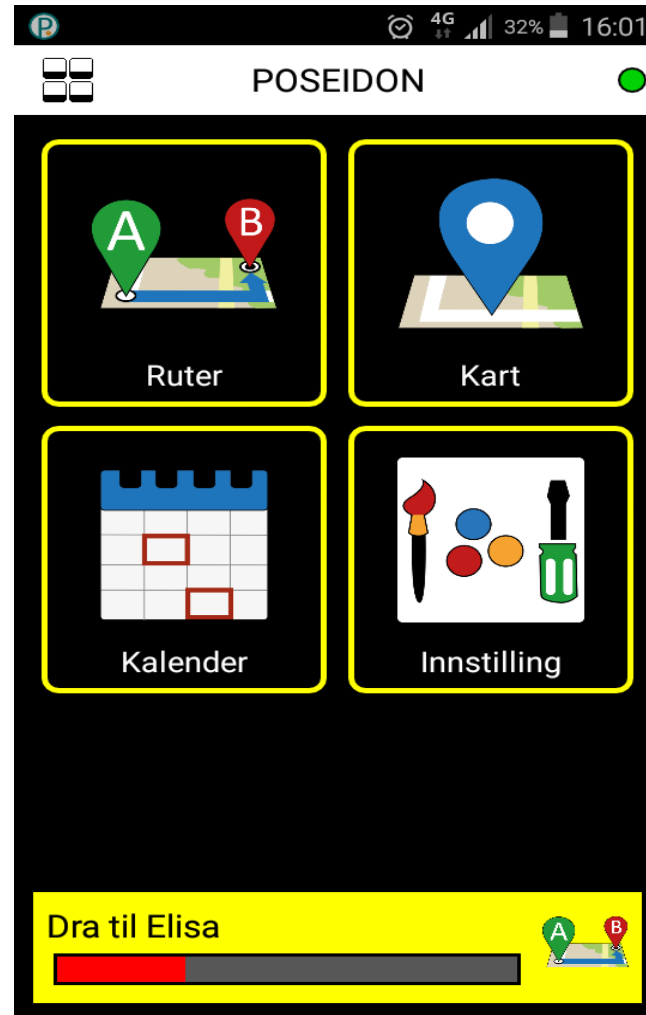
Timing of calendar prompts

Individual timing
of the reminding
prompt in the calendar.



- Some cannot be reminded too long before an event/appointment.
- Others need a reminder a long time before.

Colour schema



Personalisation
in POSEIDON is
about taking
into account
knowledge
about people
with Down
syndrome

- They can master many activities of daily life with appropriate support or through repeating training over an extended period.
- They are often clever users of information technology such smart phones and tablet PCs.

Thank you!

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www.poseidon-project.org