



Location based learning

Learning outside the classroom

Gerton Cazemier



Let op!

Niet verwijderen. Dit is een
overgangsslide.
Dit staat niet op template.

Location based learning

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Pedagogy



Gamification

Data-sharing

Real-World
processes:
activities
similar to
those done by
practitioners

Authentic
environment

Context-
awareness



Artefact-
Construction

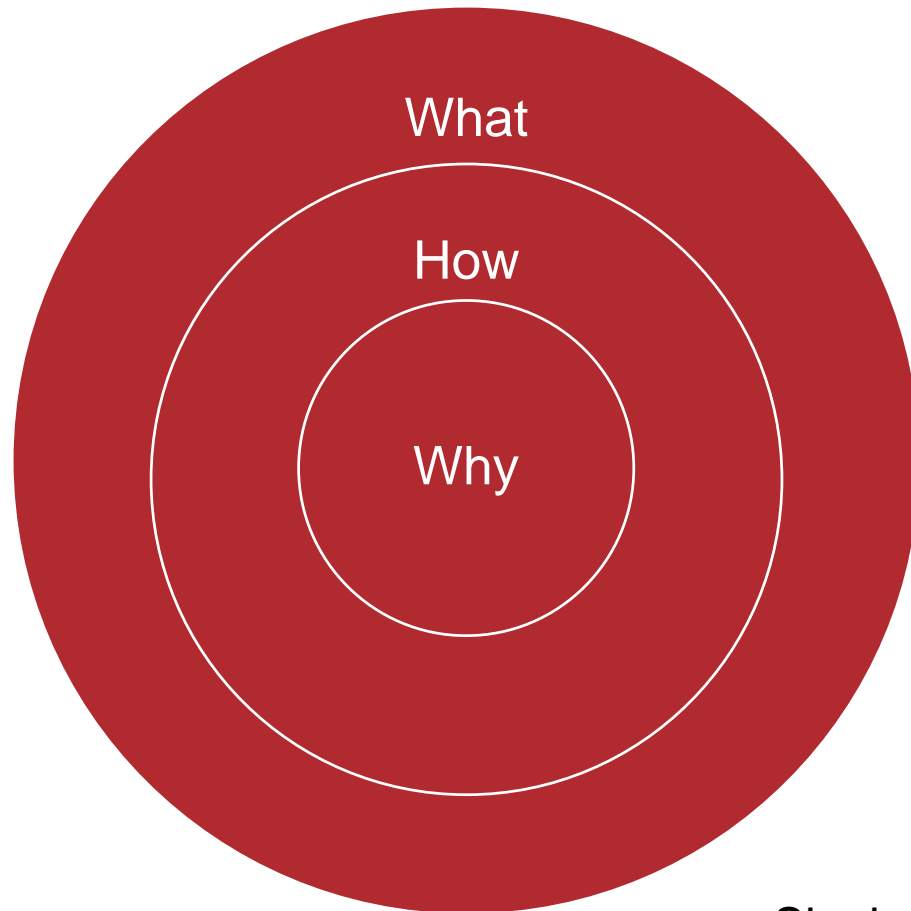
Goals

After this session you will...

- Have seen examples of activities designed/created using Actionbound (www.actionbound.com)
 - including different question types and assignment types Actionbound supports
 - and considerations involved when designing location based learning using the Actionbound website and App
- ...be able to evaluate activities outside the classroom, using...
 - ...ten characteristics of environmental education (Van Riessen & Van Maanen, 2006).
 - ...advice for environment education to the teacher (Baarn, 2013).

<https://en.actionbound.com>

Start with Why



Benefits...

What do you think are the benefits of learning outside the classroom?



Rate some existing activities (1 Take a team selfie)

! Mission



The first assignment is to take a team selfie near the revolving door. After taking it, your team can start walking. The person who carries the mobile device should read the assignments aloud so all of the team can participate. You will be given assignments every now and then. An arrow may appear on your screen to show you the direction in which you will go (together with the distance to the next assignment). Stay together as a team and for one assignment you will need a A4-size paper.

Any photos or videos you make will be upload when you return here (using Wifi).

Titel presentatie

📷 Type of solution
Upload picture from camera

Uploading a team selfie is good for establishing if the mobile device is working and if proper teams were formed.

Good for establishing who was in what team together (afterwards)
(And for checking attendance)

Rate some existing activities (2 Estimate height of a tree using a4 sized paper)

Quiz

Estimate the height of the tree using the A4 sized paper.



Hou de driehoek voor je oog terwijl je over de schuine zijde richting de top van de boom kijkt.

Loop naar achter of naar voor totdat de top van de boom in één lijn ligt met de schuine zijde.

Je hebt nu twee gegevens nodig: de afstand tot de boom en je ooghoogte. Tel ze op.

Points
100

Mode: Estimate number

- ✓ Correct value
20
- > Minimum value
1
- > Maximum value
30
- > Deviation for 10% point deduction
1

> Attempts
1

Penalty for incorrect answer
10

Show solution if answered incorrectly


Should include instructions on *how* to measure it.




Teacher needs to supply A4 sized paper beforehand (requires supplying each team with it).

Rate some existing activities (3 What type of tree is it?)

Quiz

You can see the trees in the picture. What type of tree is this? Compare leafs using the three pictures below.
beuk (beech tree), eik (oak tree) or kastanje (chestnut tree)





beuk eik kastanje

Titel presentatie
Actionbound

Points
100

Mode: Multiple choice

- ☐ Oak tree (Eik)
- ☐ Beech tree (Beuk)
- ☒ Chestnut tree (Kastanje)
- ☐ Geen van deze drie !

Attempts
1

Penalty for incorrect answer
10

Show solution if answered incorrectly

Show tree and three example leafs
and names of trees.
Encourage actively **comparing**
instead of **testing** knowledge.

Rate some existing activities (4 Information on where to walk using a photo)

 Information



Let's continue walking (but look carefully at this picture)!

Walk in this direction:

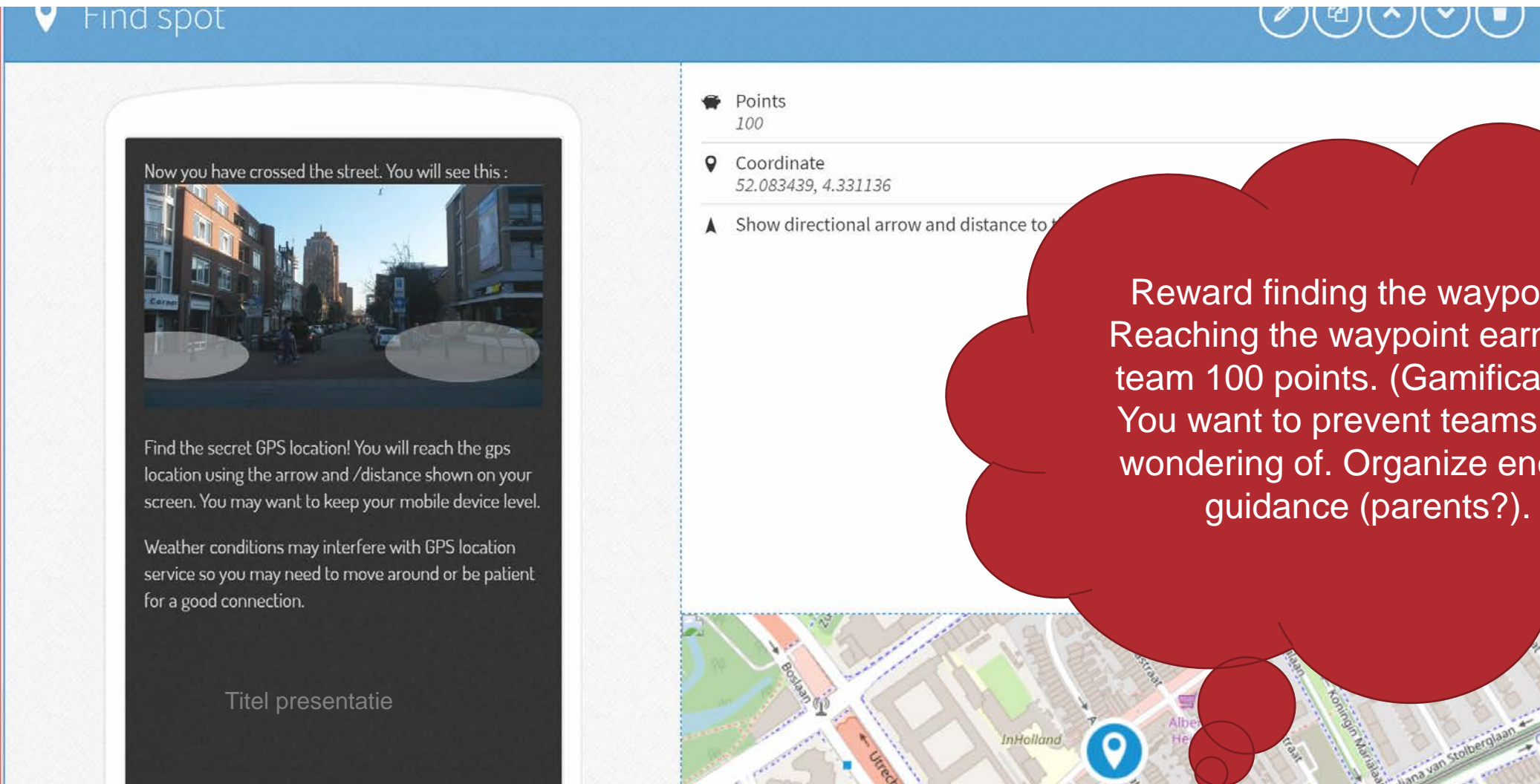


Stop as soon as you see two underground containers. They are marked: Restafval. Here we will cross the street safely.

Titel presentatie

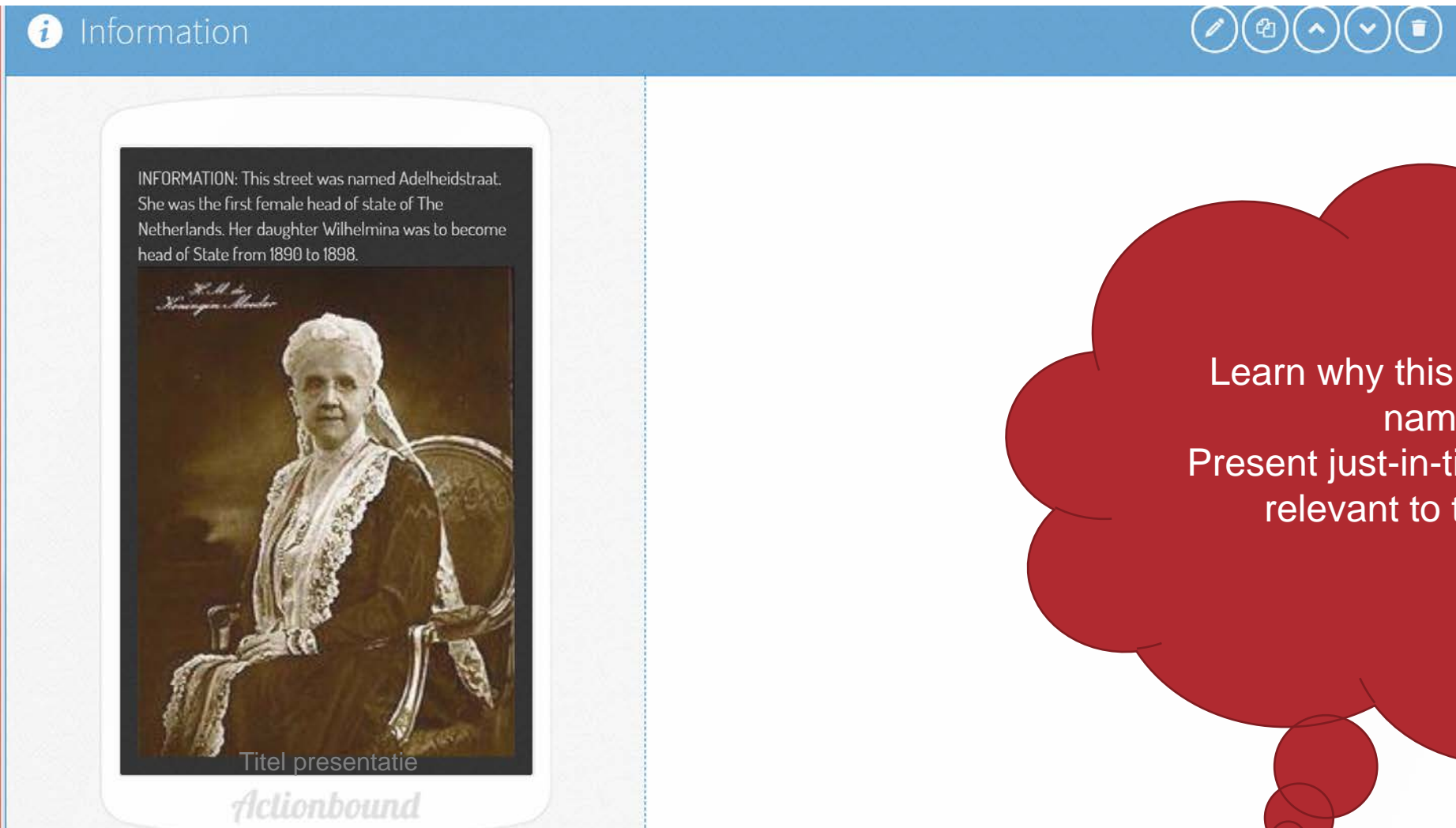
Encourage to walk the right path at regular intervals.

Rate some existing activities (5 Find secret GPS location)



Reward finding the waypoints. Reaching the waypoint earns the team 100 points. (Gamification). You want to prevent teams from wondering of. Organize enough guidance (parents?).

Rate some existing activities (6 This street was named...)



Learn why this street has this name....

Present just-in-time information, relevant to the location

Rate some existing activities (7 Search the internet...)



Survey



This street (Adelheidstraat) still has old fashioned lampposts. Take a closer look at the 'arms' that have a graceful krill. Why are they there? Use your mobile device to search the internet for the right answer (discuss this with the team before answering).



Inter presentatie

Actionbound

Answers


- > The shape of a lamppost was made to look like a human
- > They are supports for a ladder used for gaslight. They were abandoned once lampposts were fitted with electric light.

Encourage discussion and searching the internet for information.

Rate some existing activities (8 Upload a Video...)

Mission

Oops! We spilled some coffee on this map. When we return to class we will complete the satellite image. The mission is to choose a safe point from which to make a video. Stay on the curb. Make a **short video**. It should be 5 seconds long. Just enough to be able to fill in the missing part of the satellite image.



Titel presentatie

Have a close look at the missing part:

Type of solution
Upload video

Present a problem to solve. Extend data collection to an activity inside the classroom (e.g. finishing a missing piece of a satellite image).

Rate some existing activities (10 Take a picture: point at differences *picture taken in 2013 and current situation

! Mission



This picture was taken in 2013. This is the entrance to the Royal Conservatory.

You will complete the next assignment near the parking machine.



Titel presentatie

Find the exact point from where the 2013 picture was

📷 Type of solution
Upload picture from camera

Having everyone in the picture except the photographer will encourage all to be actively involved.

Results



Location based

Explore and create

Visit www.actionbound.com

Create your free account. Install the free Actionbound App on your mobile device (Android or Apple device).

You will need 30 minutes to explore the interface and create some activities. Your bound will only be visible to you, as long as you don't choose to make it public.

Creating a "bound" is free as long as your finished Bound does not need to be hidden to the public.

Thank you for participating

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