



Morgen in Hamburg (Hamburg tomorrow)

Name of the programme?

MORGEN IN HAMBURG (Hamburg tomorrow) is the pilot project of the organisation MORGEN IN MEINER STADT GmbH (Tomorrow in my City). It is setting up workshops of the future in Hanseatic city Hamburg.

Age of the children involved?

Middle school pupils (from 12 to 17 years old).

What are the goals of the programme?

The aim is to provide pupils with active access to topics affecting their city through experiencing and understanding them themselves. The main focus is on "asking questions". The MORGEN IN MEINER STADT team helps pupils find their own answers and come to their own conclusions, but does not provide answers directly.

Which competencies are developed? (according to WG4 competencies lists)

- Cooperation, participation and social responsibility: developing skills for team working, cooperation and active involvement
- Critical thinking: Students will be able to identify connections and relationships: they will determine and report links and relationships between phenomena, events and concepts of different disciplines, developing the ability to identify relationships, to understand arguments and explanations and to assess situations.
Students will develop the ability to evaluate their actions and monitor the effects these have on the world around them.
- The future begins today: Students will be able to think and act in a forward looking manner, being able to envisage a positive future.
(Students will) be able to think and act in respect of future generations.

Which of the 9 areas of Big Science Issues does the case-study relate to? What are the Key Words used in the activity? (according to WG2 Big issues mind maps)

climate change, biodiversity loss, fresh water use, land system change

greenhouse effect, renewable energy, heating, mobility, traffic, resources, waste, recycling, soil food

What educational strategies (learning models, methods, etc.) are used in your programme?

The backbone of MORGEN IN MEINER STADT is an internet platform. Here, extensive, multimedia research material of immediate local relevance is provided, divided into eight categories. Project results may be published on the platform, which also lists contacts and important events in the city. With the support of the MORGEN IN MEINER STADT team, teachers, students and independent groups of pupils hold practical workshops of the future in schools, at companies, associations, foundations and extra-mural places of learning.

How is the programme evaluated? How do you know the programme achieved its educational goals?

There is no systematic evaluation at the moment. In cooperation with the Leuphana university of Lüneburg a group of students will develop a framework and start to evaluate different elements of the project in spring this year.

The fact that pupils keep in contact to work on questions is taken as a hint that new thinking started.



Does the programme drive a behavioural change? How do you know that?

It seems so. But there are is no verification.

Describe the programme.

Example: future workshop: „Guck mal, Energiewende!“ [Have a look, Energiewende!“]

1. Energy supply today

Presentation: steam engine; How effects the exhaust our environment?

Presentation: climate model; Which consequences has the greenhouse effect?

2. climate change

movie: „the bill“; Which alternatives are you familiar with? How can we protect the climate through intelligent useage of other energysources?

discussion: renewable energy; Testing and deepen knowledge

3. renewable energy

working groups

presentation contest

4. renewable energy

energy circle game

5. hydrogen

animation: „the hydrogen cycle“

One future application: cars; try out

Constructing hydrogen engine cars through

Challenge

6. quiz

contest; answering the questions

Included resources / materials / tools.

entrance tickets with questions

models of

- steam engine
- climate model

energy circle game

hydrogen construction box

diagram with greenhouse effect

working sheets

movie „the bill“ and animation „hydrogen cycle“



Photos or videos



**MORGEN IN
HAMBURG**

Zukunft gestalten

12:00

LEBEN

Richtig essen...

12:00 Uhr - Mittagessen. Was es wohl heute gibt? Essen kann ja so vieles sein: Scharf, süß, bunt, heiß, kalt, roh oder gekocht. Lecker oder nicht. Zuviel oder zu wenig. Gesund oder ungesund. Aber es kann auch gut oder weniger gut... >

MORGEN IN
HAMBURG
FUTURE
POINT



12:00

17:30

ENERGIE

Solarenergie

17:30 Uhr - Die Sonne scheint schon den ganzen Tag. Wie schön: Heute Abend ist das warme Wasser für meine Dusche kostenfrei! Im globalen Maßstab hat von den „Erneuerbaren“ die Solarenergie aufgrund ihres... >

MORGEN IN
HAMBURG
FUTURE
POINT



17:30

07:30

MOBILITÄT

Die Automobile Revolution

07:30 Uhr - Die Rushhour beginnt, auf Hamburgs Straßen wird es voll. Seit Autos die Pferdewagen abgelöst haben, bestimmen Verbrennungsmotoren den Verkehr. Sie verbrauchen begrenzte, fossile Kraftstoffe (siehe Grafik) und produzieren das... >

MORGEN IN
HAMBURG
FUTURE
POINT



07:30



MORGEN IN HAMBURG

Alle Future Points



ENERGIE



Das Pflanzenkraftwerk der Mikroalgen



Mikroalgen sind ganz besondere Pflanzen. Sie sind zwar winzig klein, aber dennoch Weltmeister im Wachsen. Im Gegensatz zu Mais oder Raps, den wir von den strahlend gelben Feldern kennen, können sie bis zu 10mal schneller wachsen. Dass sie dennoch...

MOBILITÄT



Mehr Fahrtwind



Während man im Schlaf seinen eigenen Akku auflädt, macht das batteriebetriebene E-Auto das gleiche an der Ladestation in der Garage. Speziell dieser Fall bietet noch ganz andere Möglichkeiten. Denn eine solche Ladestation kann "selbst..."

MOBILITÄT



Germany's next Tankmodell



Laufsteg frei für die neue, saubere Mobilitäts-Generation. An der neuen Wasserstofftankstelle in der Hamburger HafenCity werden ab Winter 2011 die neuen Brennstoffzellen-Hybridbusse der Hamburger Hochbahn mit Wasserstoff versorgt. Am 17. Februar wurde...