



LYCÉE
MICHEL-RODANGE
LUXEMBOURG

Welcome to
Lycée Michel-Rodange
building “Flower” 2017-21

Michel Rodange

National poet

De Renert

Et war esou ëm d'Päischten,
't stung Alles an der Bléi,
an d'Villercher di songen
hir Lidder spéit a fréi.



National school system - 1

Fundamental school

- age 3-4 « Enseignement précoce », optional
- age 4-6 « Spillschoul », mandatory kindergarden
- age 6-12 primary school
 - Literacy in german, french beginning at the age of 6
 - > 50% of the children don't speak luxemburgish at home
 - many children not born in Luxembourg

National school system – 2

Secondary schools (english beginning at the age of 13)

« Lycée classique » :

general education preparing for university: age 12 – 19

→ Lycée Hubert-Clement, Lycée Michel-Rodange

« Lycée général » (earlier « technique ») :

branches leading to university: age 12 – 19

and vocational training: age 12 – 17 (or 18)

A few private schools following the public system



National school system – 3

Fundamental schools

Schools depend on local community (building, budget)

15 regional directors for pedagogical issues

Teachers paid by state

Secondary schools

One director for each school

Teachers allocated and paid by state authority

sometimes students reallocated by state authority

all Directors and Vice-directors

appointed by Government for 7 years, renewable



National school system – timetable¹

Secondary schools, lycée classique grade 7, 30 lessons

French 5,5 / LMRL: French 5 + Informatics 0,5

German 4, Luxemburgish 1

Mathematics 4, Natural sciences 2,5

History 2, Geography 2

Life and society 2 (ethics, religions, civic education)

Arts 2, Music 2, Sports 3

National school system – timetable2

**Secondary schools, lycée classique
grade 13, 30-31 lessons, different sections**

Example 1: Natural sciences

Mathematics 6, Biology 4, Physics 4, Chemistry 4

Languages (2 of 4) German, French, English, Latin 3

Philosophy 2, History or Economics 2

Optional course 2 (proposed by school, no final exam)

Sports 1

National exam: all except sports and option

National school system – timetable³

**Secondary schools, lycée classique
grade 13, 30-31 lessons, different sections**

Example 2: **Economics**

Mathematics 5, Economics 4+4

Languages (3 of 4) German, French, English, Latin 3

Philosophy 3, History 2

Optional course 2 (proposed by school, no final exam)

Sports 1

National school system – timetable⁴

**Secondary schools, lycée classique
grade 13, 30-31 lessons, different sections**

Example 3: **Languages**

German 5, French 5, English 5

4th language 5 : Italian or Spanish

Philosophy 3, History 2, Economics 2

Optional course 2 or Latin 3

Sports 1

Alternative school offers - 1

Problem: how to integrate the many children

- arriving late to Luxembourg
- only staying in Luxembourg for a few years
(e.g. parents working for a multinational enterprise)

-> **Public schools with an international offer**

- International baccalaureat (in french and in english)
- Schengenlyzeum (german system, in Germany DE/Lux)
- A levels (British system, also fundamental school)
- 4 conventioned european schools (public schools !!!)
branches german, french and english
-> very recent offer , also fundamental school

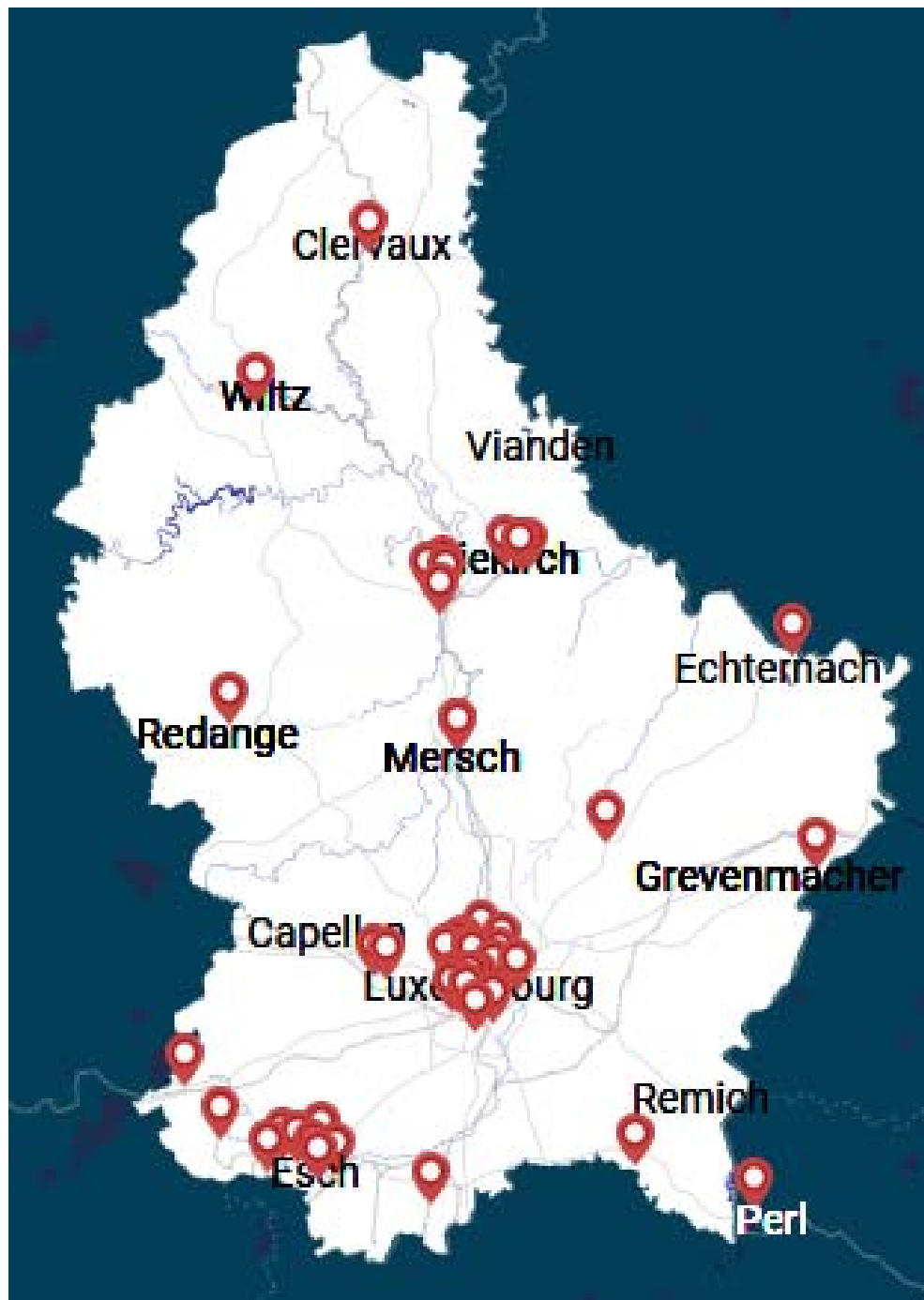
Alternative school offers - 2

Private schools with an international offer

- 2 European schools (all branches)
- Waldorfschule
- Lycée Vauban (part of the French int. network)
- International School (American school)
- St George School (English national curriculum)

All these schools offer fundamental and secondary education (no vocational training)

Some are very expensive



Source:
www.mengschoul.lu



Campus GeeseKnäppchen

- 4 public secondary schools , 1 International School, 1 Municipal Music School -> > 6000 students
- -> 3 lycées classiques (+ - 40% of all national students)
- Common structures
 - Swimming pool (50m * 30m)
 - Conference Hall (700 places)
 - Campus restaurant (700 places)
 - Outdoor sports facility
 - Car park (>500 places)
- > structures run directly by a state department

Lycée Michel-Rodange in numbers

- Founded in 1968, first mixed school (girls and boys)
- 1300 students,
235 in year 1, 200 in year 7
36 nationalities, 1101 luxemburgish, 1159 born in Lux
- 120 teachers, 1 librarian
2 psychologists, 1 social worker, 2 educators
- Timetable: Monday-Friday 8h00-14h15
5 days with 6 lessons of 50 minutes
lunch break of 55' at 11h40 or 12h30



Lycée Michel-Rodange - projects

- 12 special sports classes (4 cl. in year 1 and 3 in year 2 ...)
 - 4 special music classes (1 class in years 1-4)
- > grouping students with common interests, more lessons in sports/music and organizing extracurricular activities
- 15 iPad-classes (national iPad-program, iPads are hired from State, 50€/year)

sports classes seem very attractive and are increasing steadily since their beginning in 2013.

1 sports class of year 1 has an exchange with Lübbecke



Lycée Michel-Rodange - projects

Spanish, Italian or Chinese

- possible for all sections from grade 11 to 13
- as option in grade 11
- replaces another language in grades 12 and 13
- subject in final exam



Lycée Michel-Rodange – annual projects

- Musical and concert with 200+ participants
- French and English theatre
- 2 project days with various workshops
- Rally in Lux. City with all 1st-graders organised by teachers and many students of grade 12
- Reading contest (120-150 participants) in all languages taught at school



Lycée Michel-Rodange –projects

- Scientific option in applied Biology (with UniLU)
- School TV & school radio
- Yel/Hope/Mega-club
- Various action groups: fairtrade, charity, ...

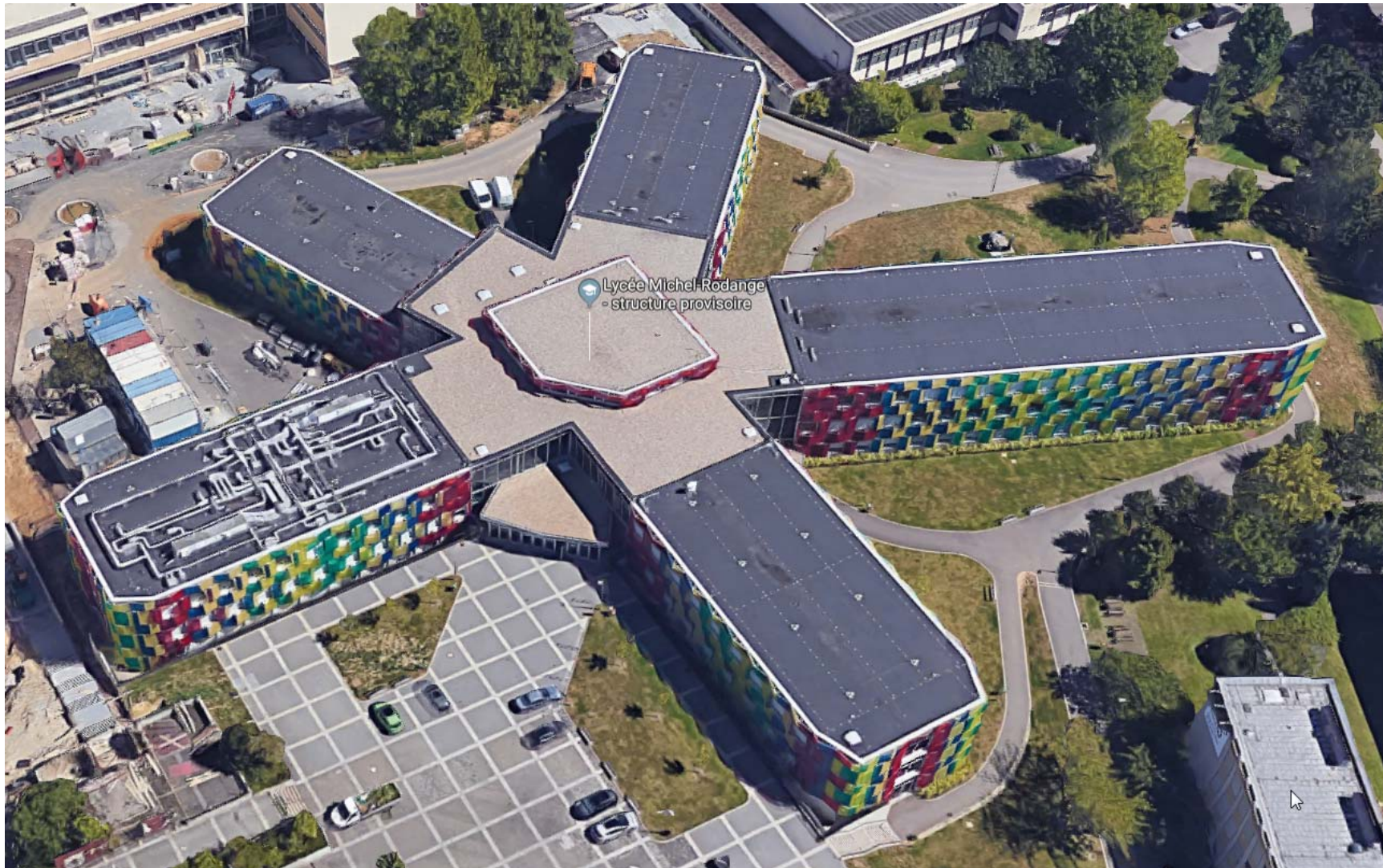


Lycée Michel-Rodange old building 1972-2017



Lycée Michel-Rodange

« flower » - building: 2017-2021



« Flower » - building

- construction 15.07.2011-15.09.2012 (14 months)
- modular structure, built to hold for 30 years
- 15.09.2012-31.03.2017: School Athénée during the renovation of their main building
- 01.04.2017-14.09.2017: clear, tidy, move in
- 15.09.2017-15.07.2021: Lycée Michel-Rodange during the renovation ...
- 15.09.2021- ... École Nationale des Adultes & ...

« Flower » - building

- modular structure, 3 levels
- good energetic performance
- central core: concrete
- 5 wings: prefabricated, wood
- A-wing: physics, biology, chemistry
- B-wing: teachers and administration
- C and D-wings: 48 normal classrooms
- E-wing: informatics, music, arts and 5 classrooms
- central core: cafeteria, library, open space

Lycée Michel-Rodange after renovation : 2021-



Lycée Michel-Rodange renovated

- New construction combining 3 large volumes: sport hall, multifunctional room, cafeteria
- Demolition and reconstruction of connecting buildings, respecting accessibility needs
- Innovative (automatic) ventilation system



Lycée Michel Rodange and sustainability

- Better energy performance:
 - Reduction of heat loss:
 - Better insulation of walls and windows
 - Green roof
 - Production of electric energy:
 - Solar panels



- Biodiversity:
 - Extensive green roof:
(~4100 m²)



Extensive green roof

Substrate Height: < 10 cm

Vegetation: mosses,
sedums, small herbs

Maintenance: low



Example of a green roof planted with sedum plants and mosses



Sedum plants for a green roof



- Biodiversity:
 - Semi-intensive green roof:
(~300 m²)

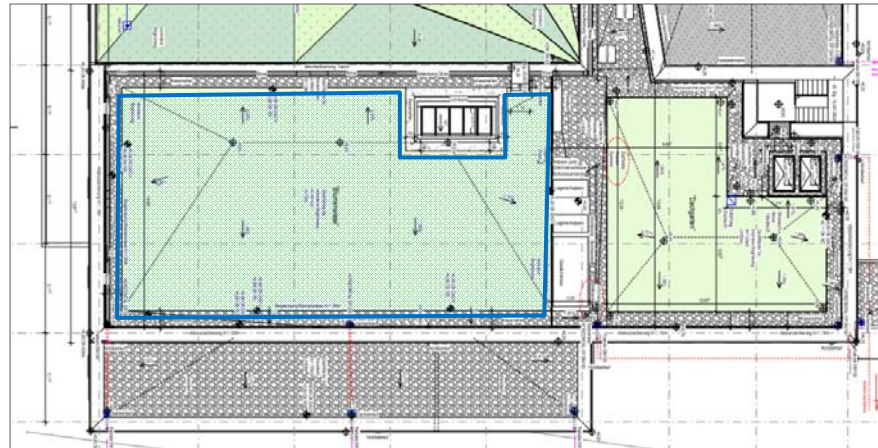


Semi-intensive green roof

Substrate Height: ~15 cm
Vegetation: grasses, herbs
and small shrubs
Maintenance: periodically



Example of a green roof planted with grasses and herbs



Semi-intensive green roof

- Biodiversity and pedagogical projects: urban farming

- Bee hives:
(3-6 hives)

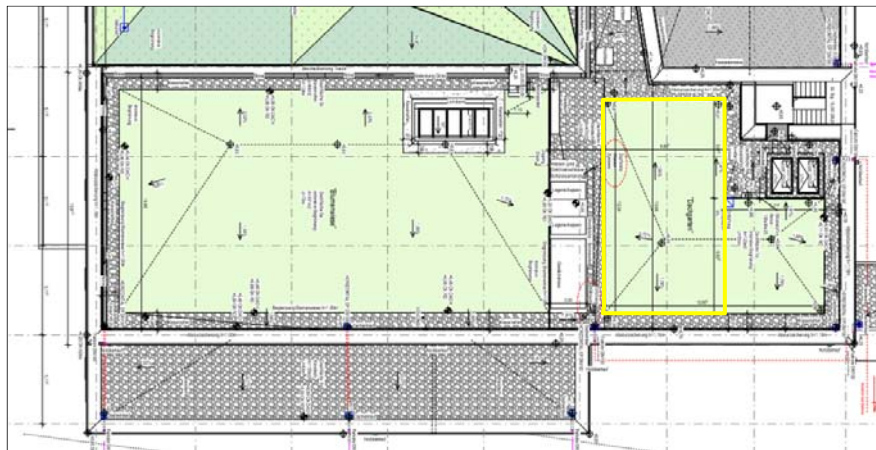


Different types of beehives and beekeeping

- Biodiversity and pedagogical projects:
 - Garden bed:
(~80 m²)



Example of an intensive green roof planted with different plants



Intensive green roof/Garden bed



Intensive green roof (Garden bed)

Substrate Height: 50-100 cm

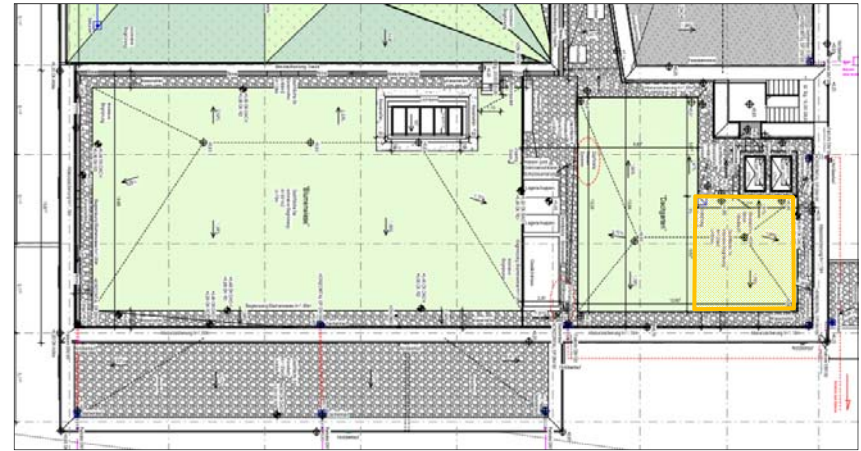
Vegetation: grasses, herbs,
shrubs, small trees,
vegetables

Maintenance: regularly

- Pedagogical project: urban farming
hydroponics/aeroponics
 - Greenhouse:
(~40 m²)



Example of vertical hydroponic culture



Greenhouse



Example of hydroponic culture in pots

Restopolis

- Central administration for all school restaurants
- Lots allocated to a provider for 3 years
- National card payment system, national tariffs

CGIE

- Central administration for technological supply
- Computers, beamers, network, iPads
- Central servers for school administrations
- Local technicians

