



Climate Detectives – a German approach to Energy Efficiency in Schools Tilman Langner



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Insight in our most recent criminal case

Some basic information about the Climate Detectives approach

Energy efficiency in Schools – what's new in Germany

The delict

20.000 € per year for Electricity

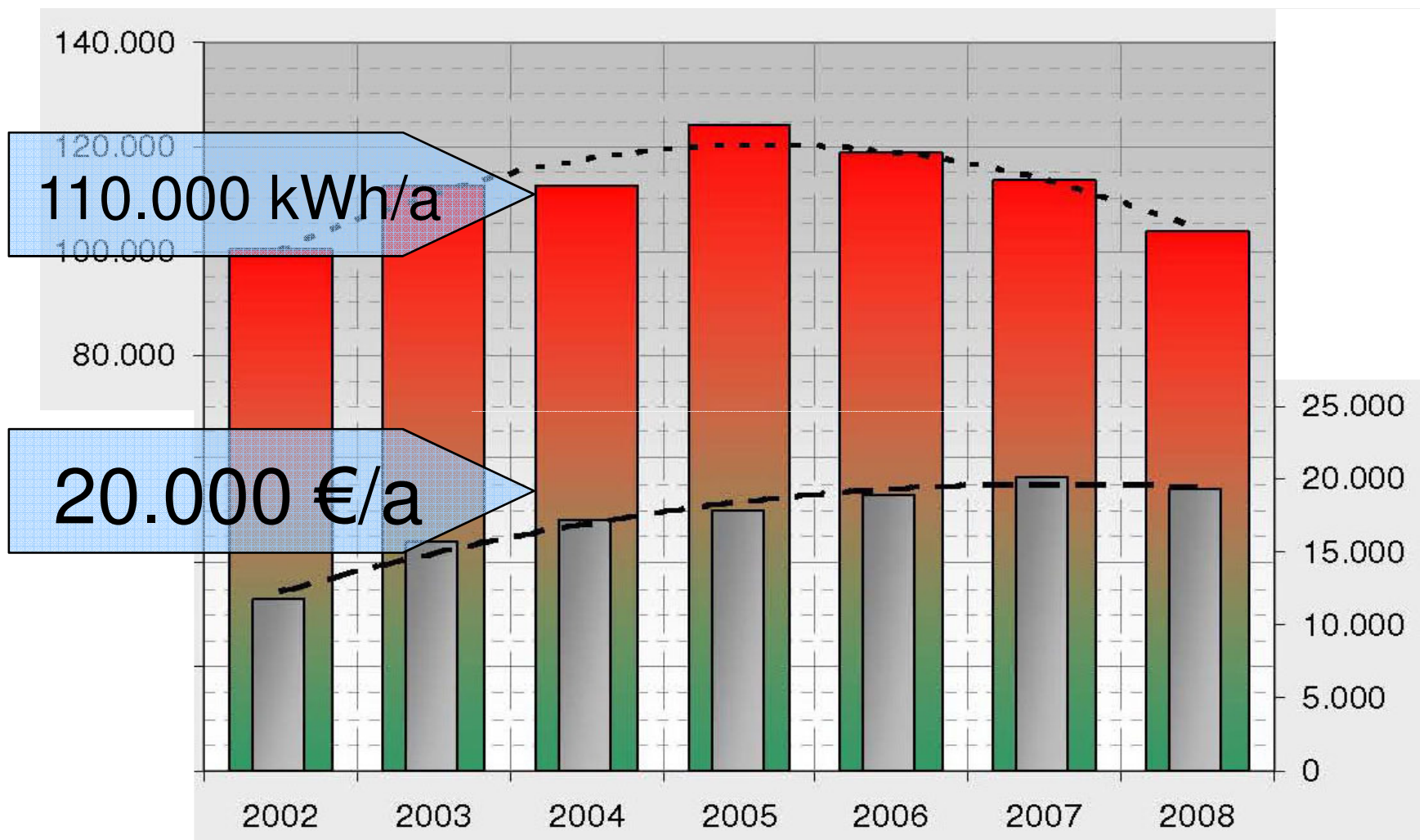


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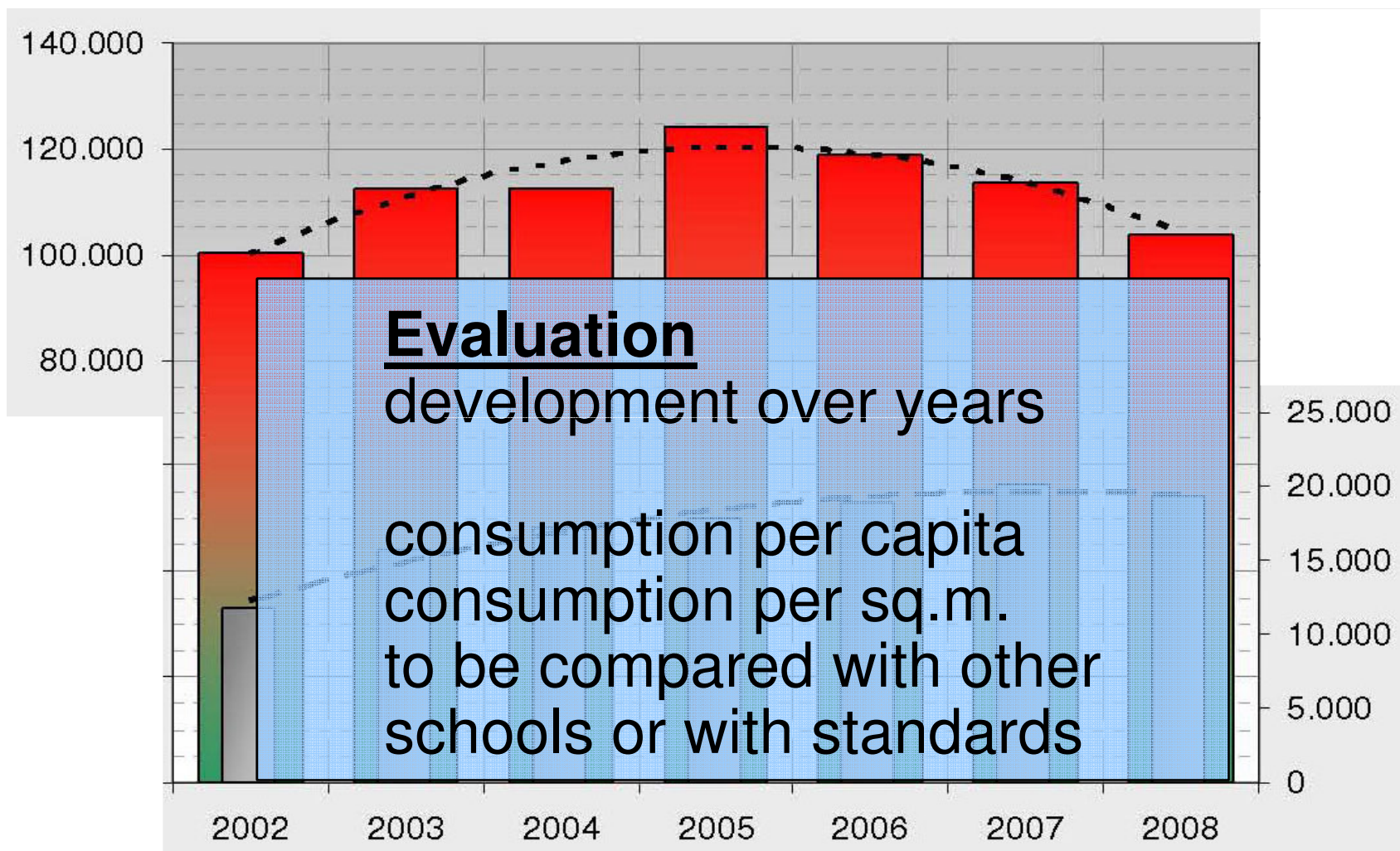
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09/2008 - 02/2011

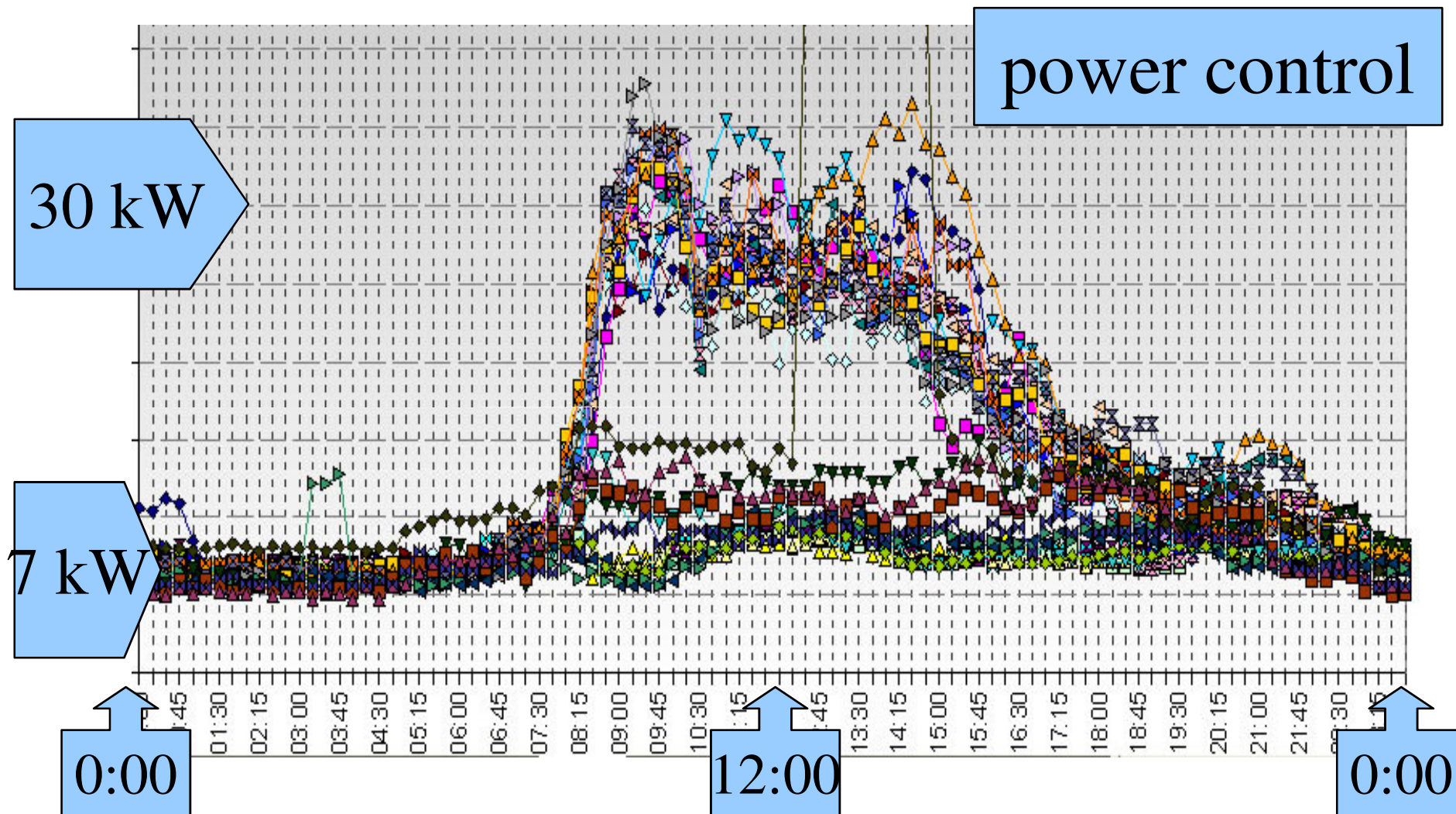
Is it a crime or not?



Is it a crime or not?



Fingerprints are required!



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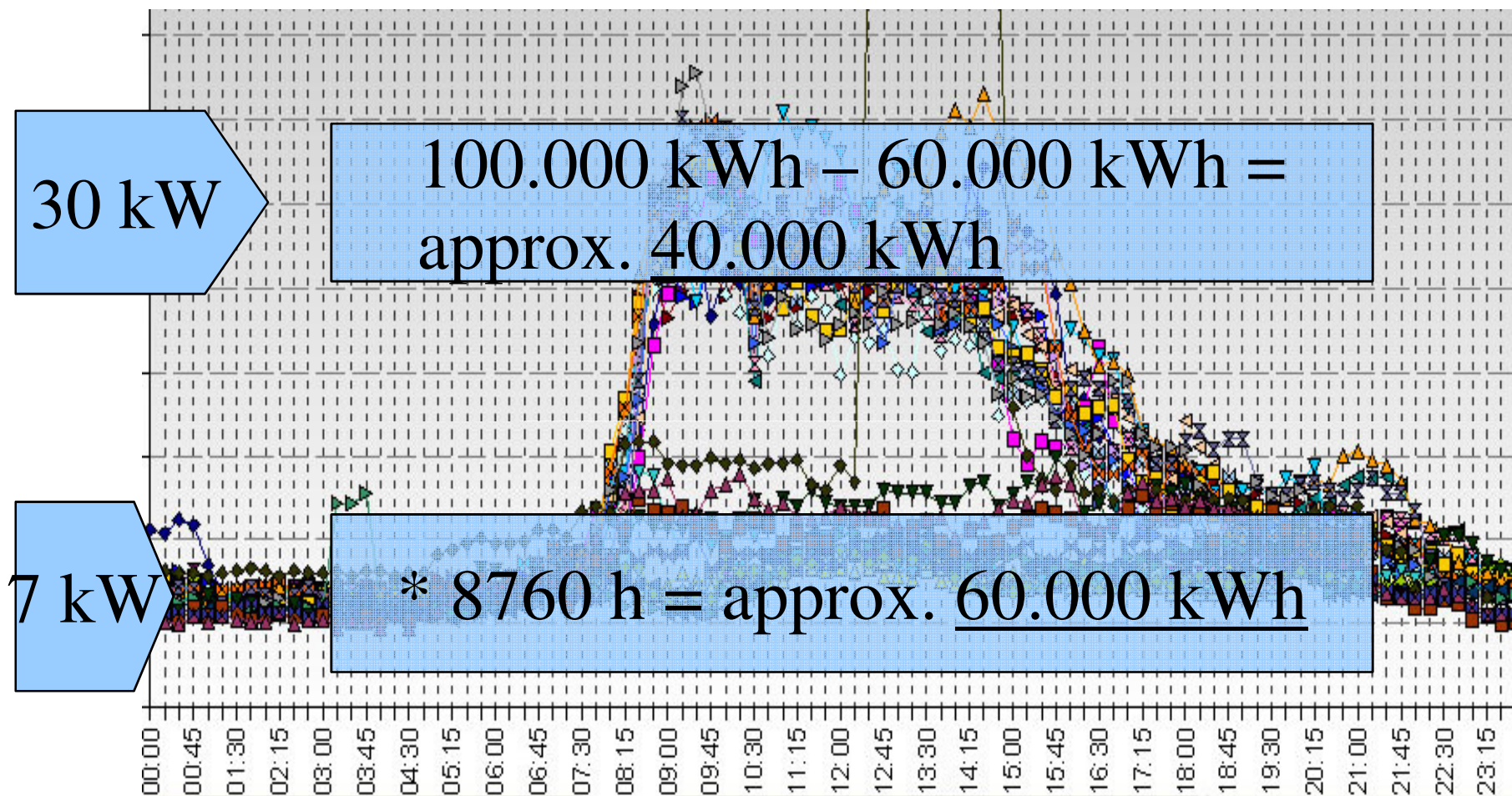


Europe

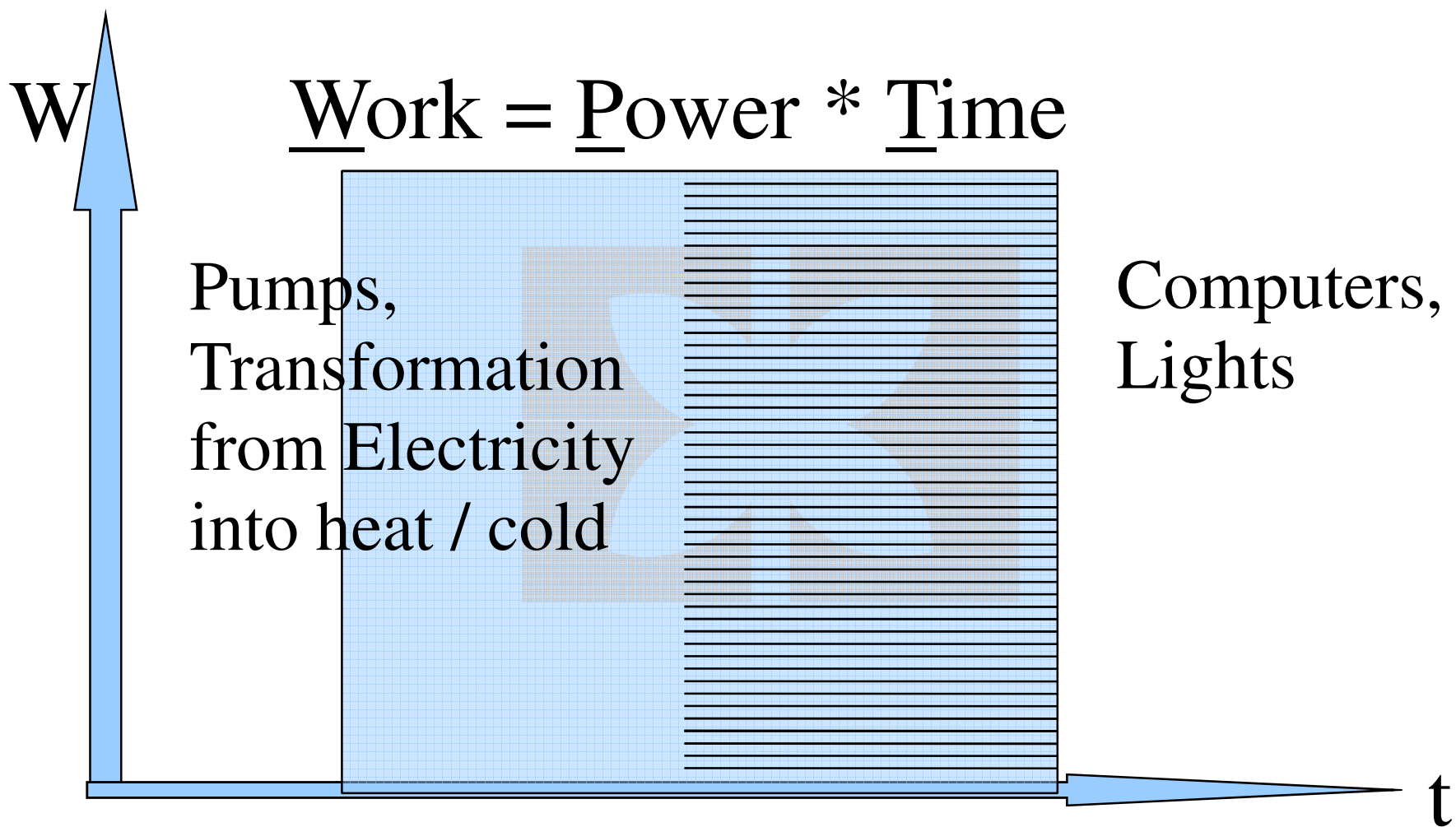


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Relevance of delinquent profiles



Who are the delinquents?



Steps of investigation

Delict, Evaluation

Fingerprints,
types of delinquents

details details details
details details details details
details details details details details details

assessment: to identify
the most important aspects

ideas / measures for
improvement

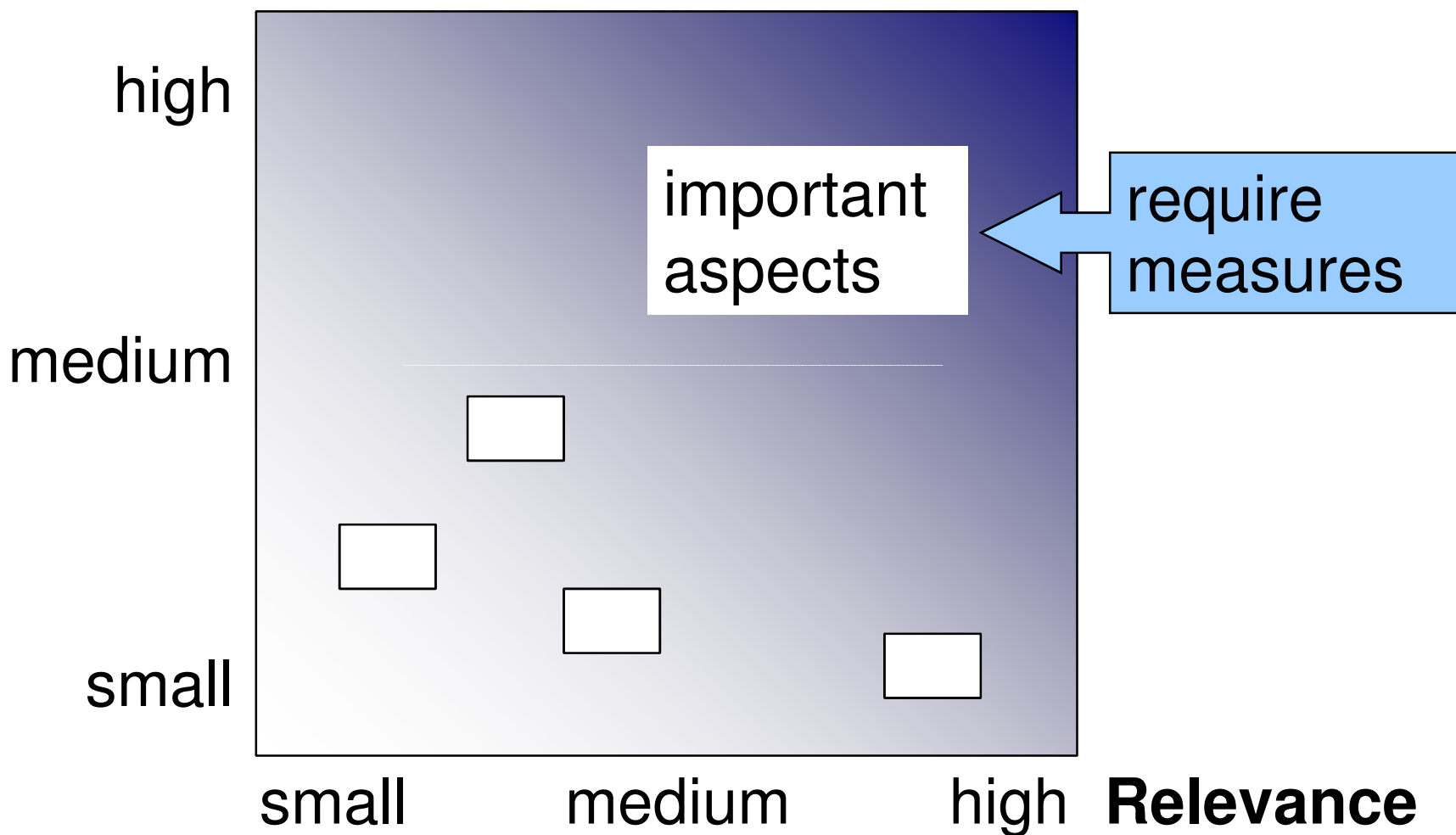
**Climate
detectives**

Electricity
heating
waste
water
consumption
traffic

...

Assessment of aspects

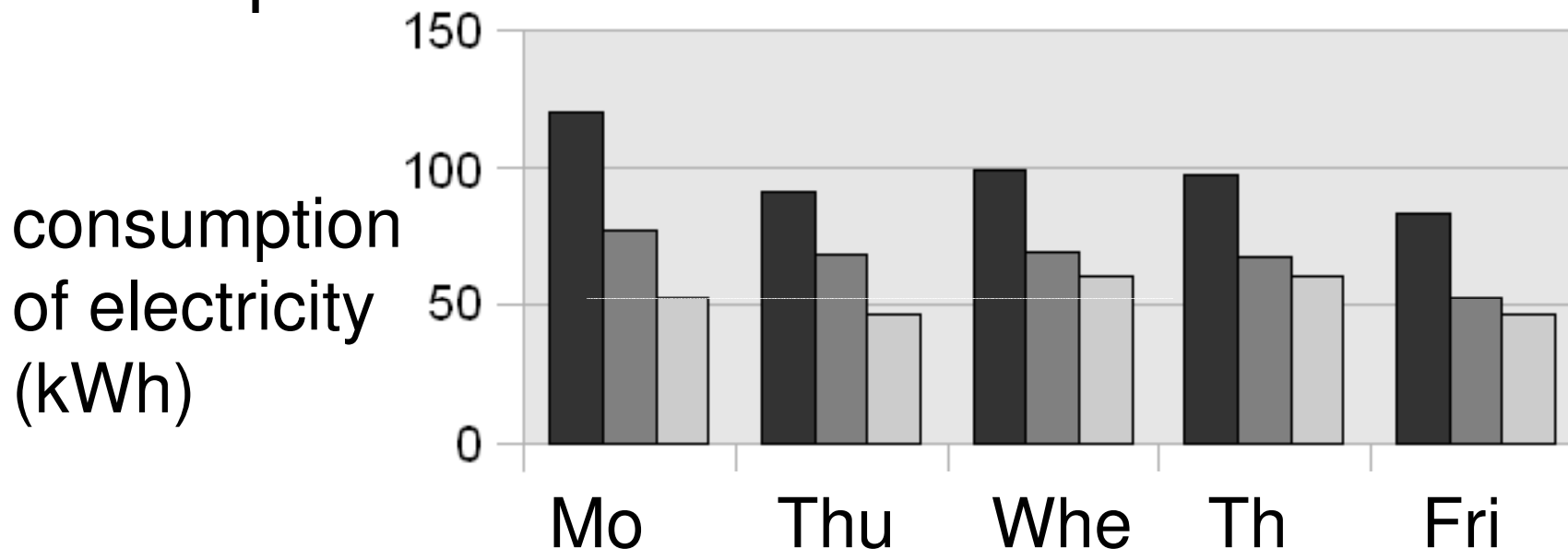
steering capacity of the school



Improvement possible?

Weeks of energy efficiency

Comprehensive School Lütten Klein / Rostock



The school reduced the consumption of electricity during the lessons by 40% (3rd week compared with 1st week)

What's new in German schools?

1990s

Campaigns for energy efficiency

Fifty/fifty (financial incentives for energy efficiency in schools)

Small solar power plants for demonstration (e.g. 1 kW_{peak})

Pedagogical basis:
Environmental education

recent years

Campaigns for climate protection

Fifty/fifty 2.0 including masterplan for reduction of CO₂-emissions

Big “citizens solar power plants” at schools (e.g. 30 kW_{peak})

Pedagogical basis: Education for sustainable development

lack in purchasing green energy

www.umweltschulen.de/klima/climatedetectives (English)

www.umweltschulen.de/klima (German)

Climate detectives manual (German)

Best examples from EU schools

www.egs-project.eu (English)

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Many thanks to Roland Rischmüller,
Thomas Rothenberg and Terence
Mbinowoh for support

