





Light Pollution – An Introduction

Light and brightness: **positive associations**

enlightenment

to shed light on something

a bright idea



Light Pollution – An Introduction

Artificial lighting: **a tool for many purposes**

extension of periods of activity

improvement of visibility

creation of aesthetic qualities



Light Pollution – An Introduction

Artificial lighting: **the more the merrier**

positive associations & high functionality

availability of much energy at low costs

technological advancements



Light Pollution – An Introduction

Artificial lighting: **the more the merrier?**

reduced visibility of stars

disorientation of animals

adverse effects on humans' sleep

reduced level and/or feeling of security



Light Pollution – An Introduction

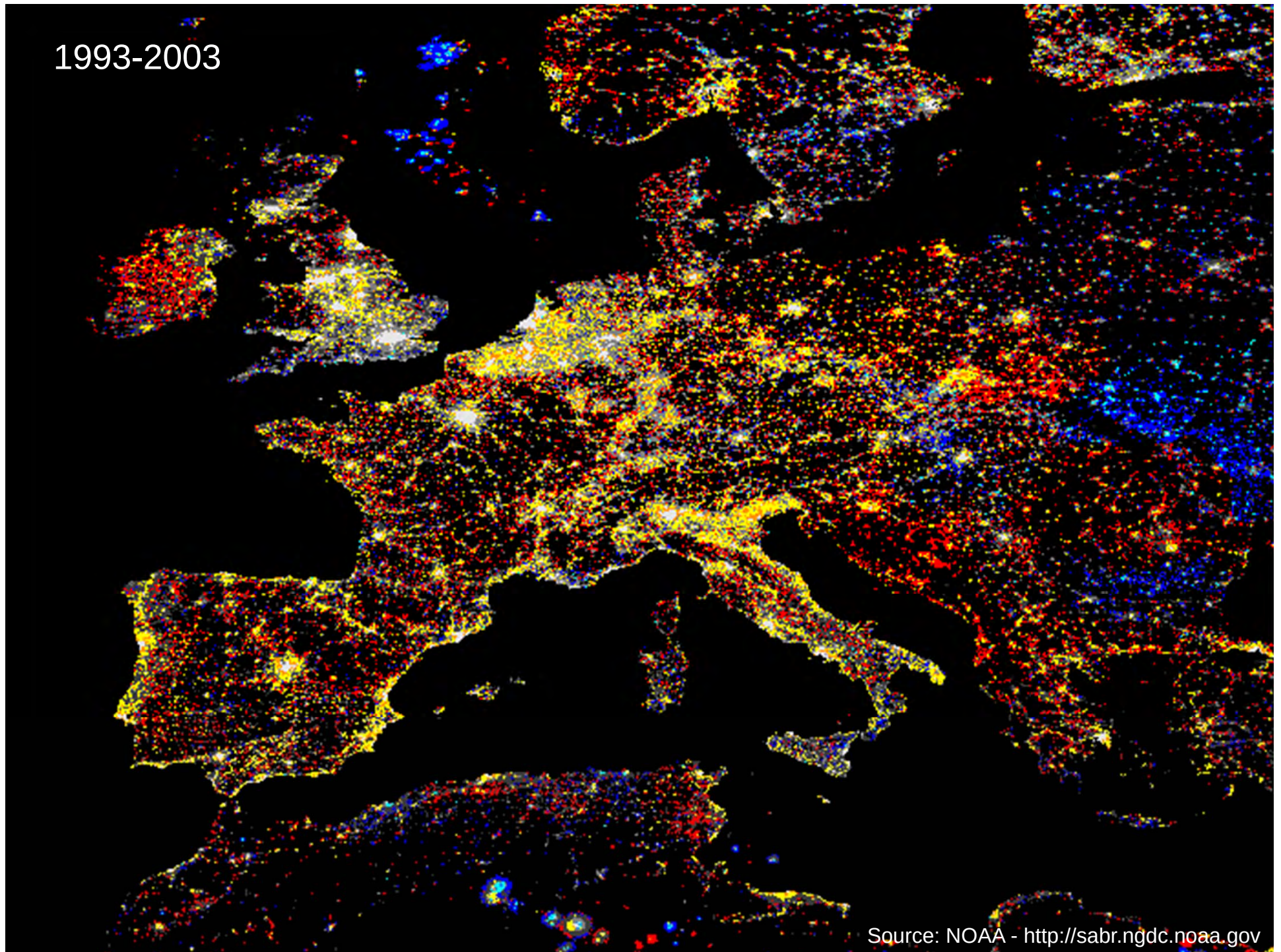
Light pollution: **an emerging term**

artificial light is the (potential) pollutant

generally – *or* –

when it is unwanted, unnecessary or damaging

1993-2003



Source: NOAA - <http://sabr.ngdc.noaa.gov>



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Light pollution: **possible remedies**

establishing areas protected from artificial lighting

adapting models of light fixtures

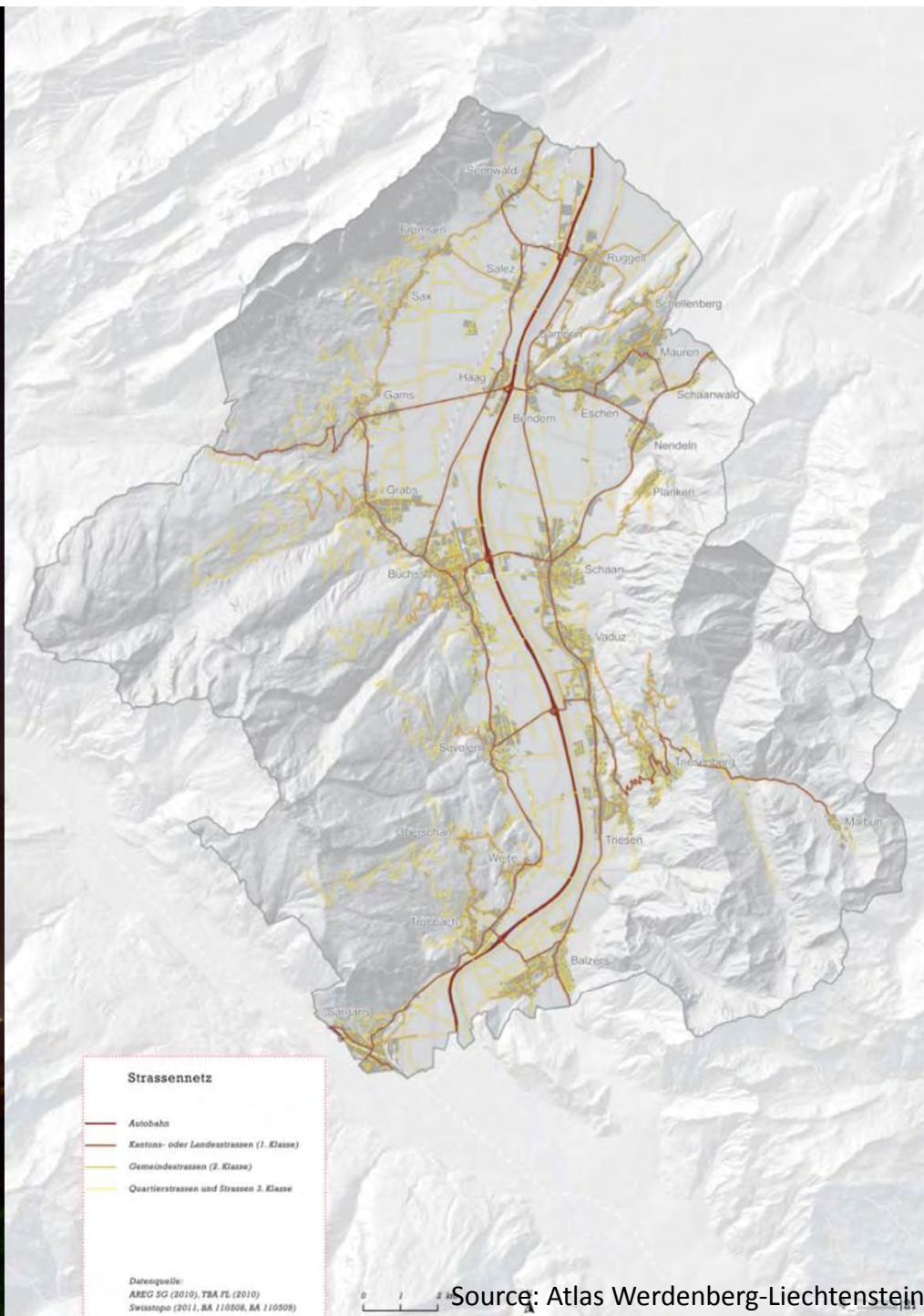
dimming and switching off public lighting

Liechtenstein



Andrea Matt, Liechtensteinische Gesellschaft für Umweltschutz
AlpWeek Session 25: Alps so Bright – Light Pollution in the Alps

Image: Paul Trummer



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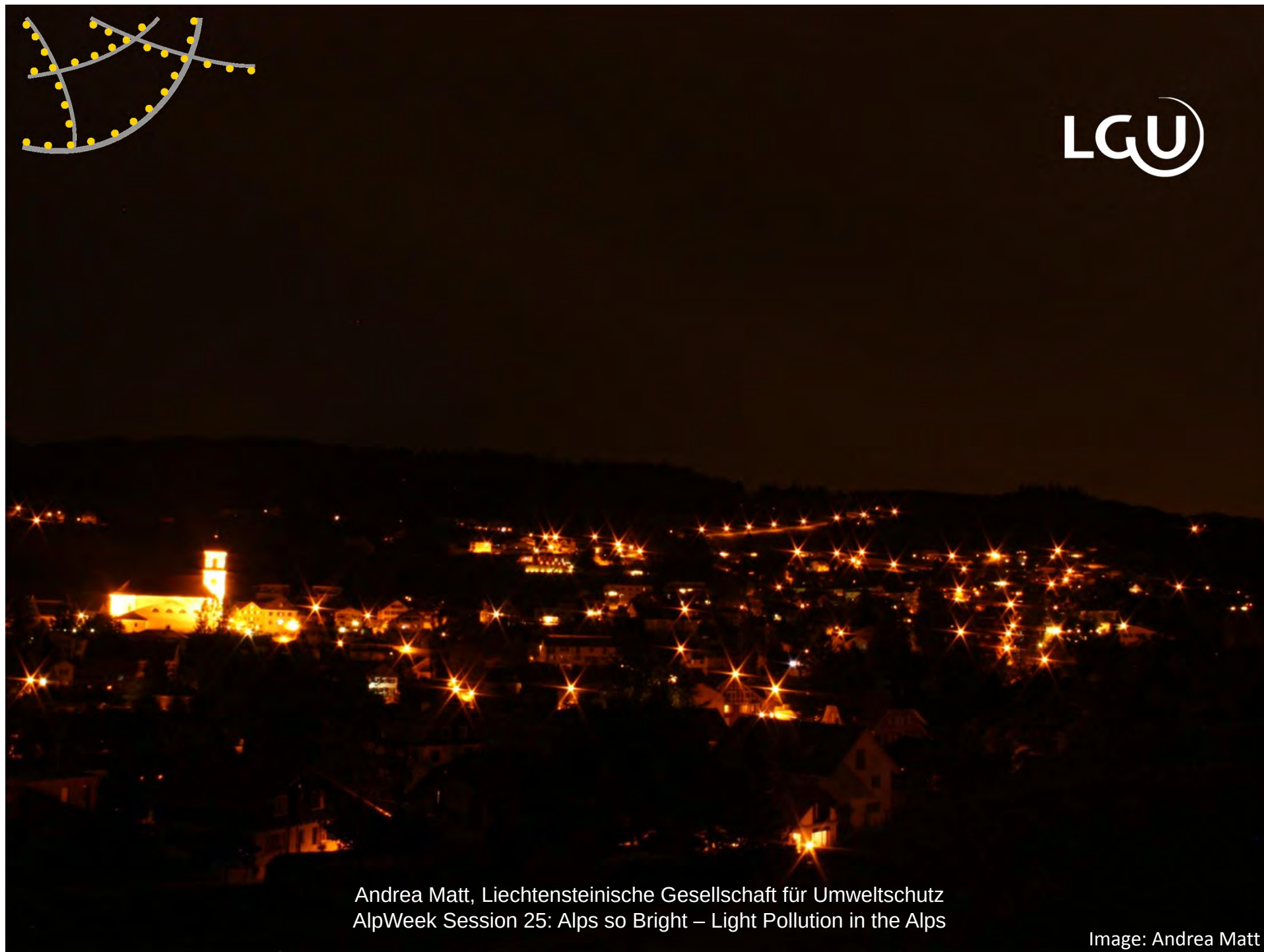
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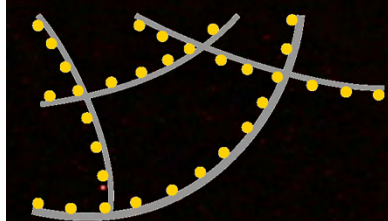
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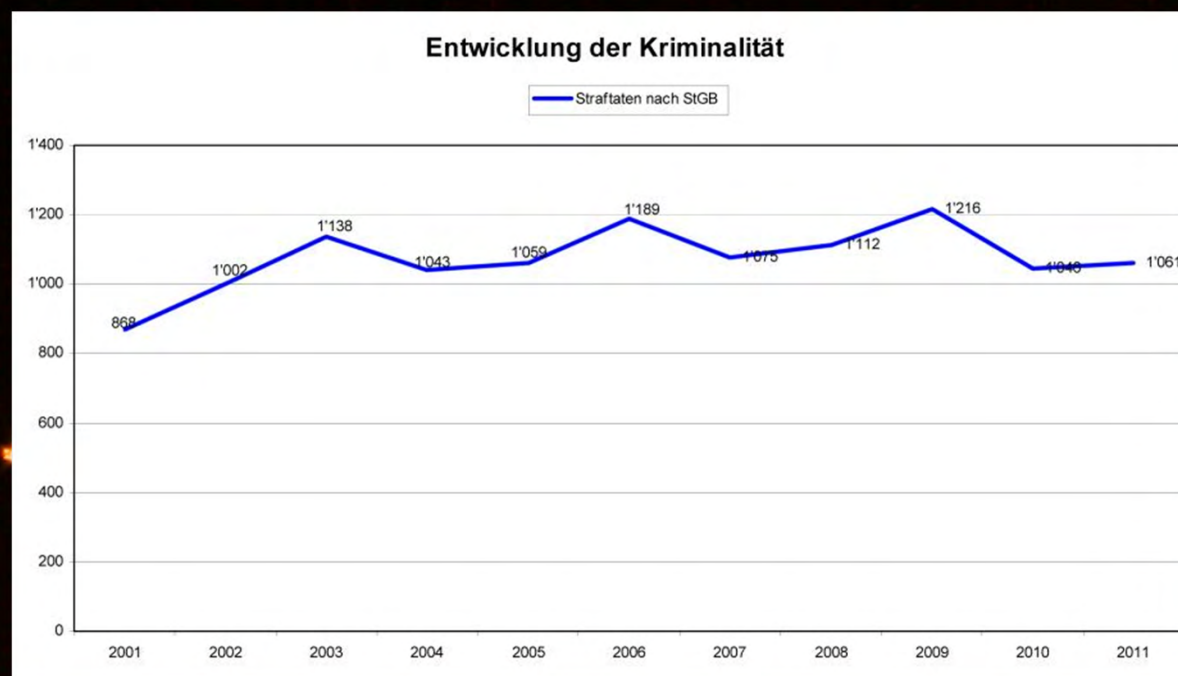
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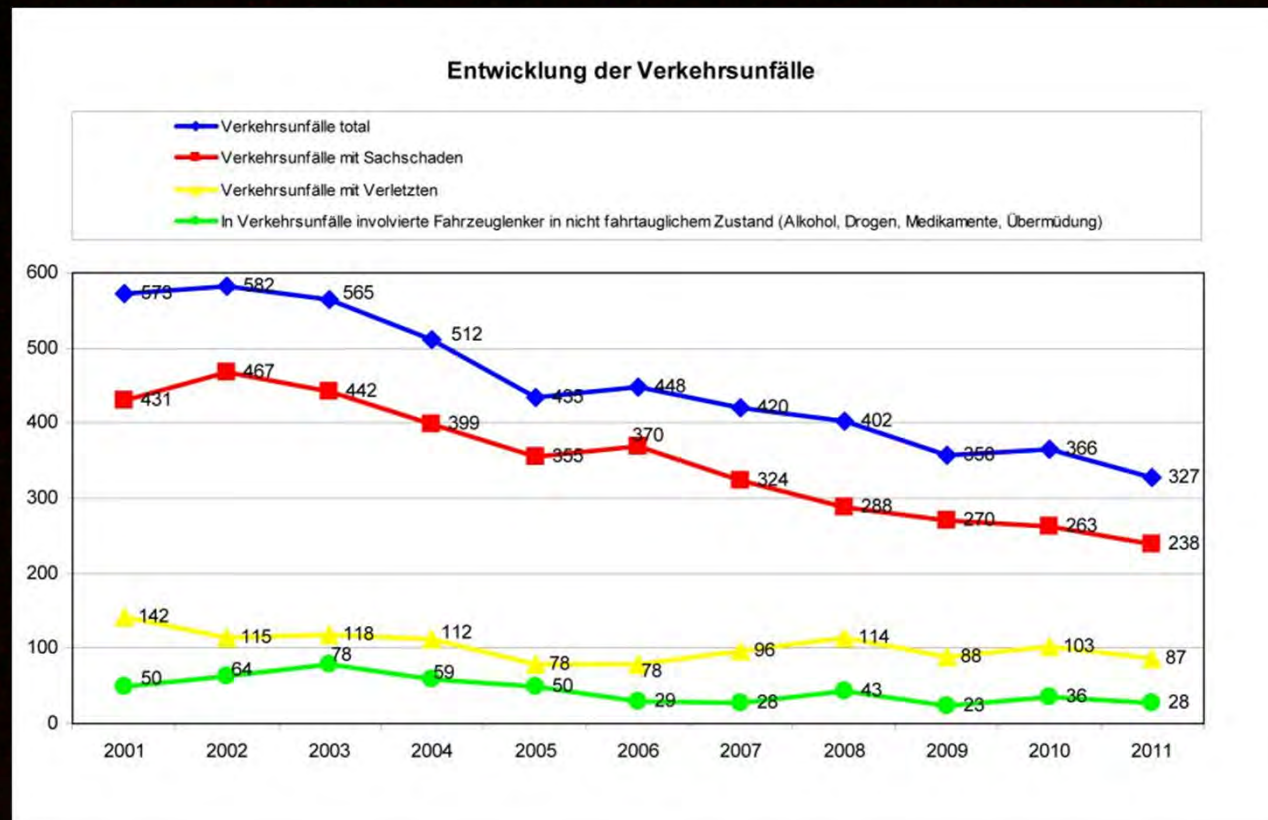
Image: Andrea Matt

Development of Crime



Source: Polizei Liechtenstein

Development of Traffic Accidents

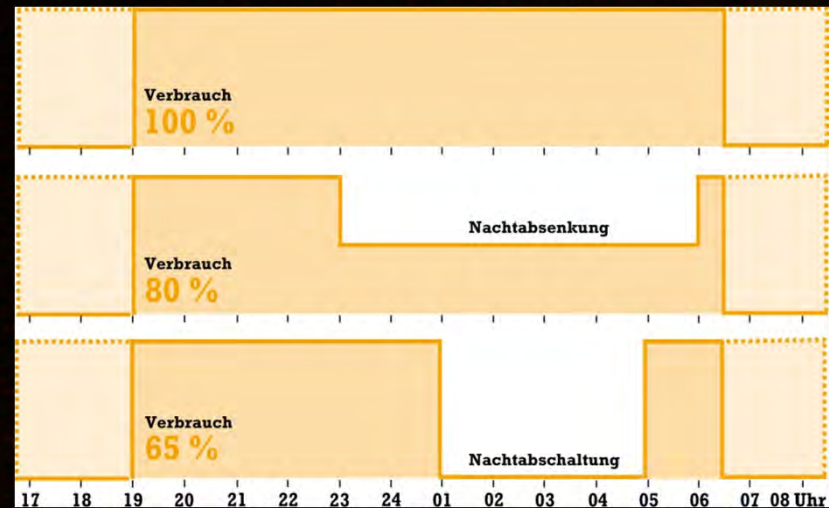


Source: Polizei Liechtenstein

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Motivation



Source: Elektrizitätswerke Kanton Zürich



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Discussion tables: **3 topics**



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Topic 1: **Dark Sky Parks in the Alps**

...where do you see chances of establishing them?

Discussion tables: **3 topics**

Topic 2: **Security – a matter of light?**

How could a balance be struck between reducing light pollution and security aims? Which criteria must be considered?

Discussion tables: **3 topics**

Topic 3: **Reducing light pollution: Let's do it!**

How can change be initiated? How can awareness be raised, stakeholders convinced, motivation be gained and fears be reduced?

Discussion tables: **3 topics**

Topic 1: **Dark Sky Parks in the Alps**

Topic 2: **Security – a matter of light?**

Topic 3: **Reducing light pollution: Let's do it!**