

Warning and Information Systems in Vienna and Austria



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CitY of  Vienna

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WARNING and INFORMATION System

abstract

- development
- currently used systems (Vienna)
- systems under progress or rather in a status of implementation
- planned systems
- what can we do devoid of electronic devices?

WARNING and INFORMATION System

development - steps

according to the industrial revolution and the associated technological progress

Warning and Information System 1.0

the first industrial revolution leads to an accelerated development of technology, productivity and science

steam-driven machine, foghorns, etc.

Warning and Information System 2.0

the second industrial revolution was characterised by using electricity. In succession, telephone and television were developed;

As a consequence there were more possibilities for warning and informing the public

WARNING and INFORMATION System

development - steps

Warning and Information System 3.0

The digital or microelectronic revolution means the change triggered by digitalisation and computer. This changed, on the one hand, the technology and on the other hand, all areas of our life;

Digitalised warning and alerting systems; detection and monitoring systems, apps for cellular phones; etc.

Warning and Information System 4.0

The fourth industrial revolution is the second phase of digitalisation which is equally important as networking and crosslinking. The technical basis for this are intelligent and digital linked/netted systems

Digital platforms for input and output of information to all or to a specified group of people via several systems used individually, simultaneously and if necessary also automatically.

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currently used systems

Warning and Alerting System in Austria/Vienna

- 184 sirens in Vienna and over 8000 sirens in whole Austria
- Pneumatic and electronic sirens
- Activation can be from single to all from a control-station in Vienna
- All sirens in Austria can be also activated by the Ministry of the Interior
- The sirens in Vienna are connected to the control-station by radio
- The sirens are activated to admonish of a danger (e.g. radioactive contamination, a chemical threat, etc.)

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currently used systems

Austrian Radiation Early Warning System (monitoring sys.)

- Over 300 stations nationwide (quantitative radiation dose)
- 11 air radiation measurement stations (qualitative analysis of airborne radionuclides like jodine)
- The Ministry of Agriculture, Forestry, Environment and Water Management is responsible for this system
- A part of the measured data is published online
- All measured data are relayed to the Ministry of Interior and to all federal countries in Austria (e.g. Vienna)

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currently used systems

Apps for cellular phone and tablet pc etc.

For information of the public in Vienna we use the „wien.at live“ app

- Information about Vienna public transport services
- Information about events
- Information about weather conditions
- Information about disasters, major damages and complex damaging events (e.g. terrorist attack, etc.)
- other information like WLAN-Stations in Vienna, waiting time at city administration agencies/offices etc.

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currently used systems

Press and Information Services

The Press and Information Services in Vienna is a municipal department;

It is responsible for:

- Public Information in general
- Social Media
- Television and newspapers
- Service of the „wien.at live“ app
- Coordination with news service of police and other organisations on duty (e.g. professional fire brigade, rescue service etc.)

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Systems under progress or in status of implementing

KATWARN - APP

The KATWARN app was developed by the „Fraunhofer-Gesellschaft“ in Germany and was bought by the Ministry of the Interior of Austria for whole Austria;

Every federal country in Austria can use this application for free:

- Information about disasters, major damages and complex damaging events (e.g. terrorist attack, etc.) by using GIS (geographic information system)
- Can be used by police, professional fire brigade, professional emergency rescue services and administrative units;

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Planned systems

Vienna radio system

A mobil network/phone operator independent radio (LTE 4G standard)

For all relevant persons and organisations in Vienna (administration, representatives of the local and federal government, Ministry of the Interior of Austria etc....)

Redundant supply radio system for our TETRA-radio-system BOS Austria

Replacement for our independent local wire-based telephone network LGN (because of the establishment of new IP-based telephone network for the city administration)

WARNING and INFORMATION System

Planned systems

PASA public warning and alert system for Austria

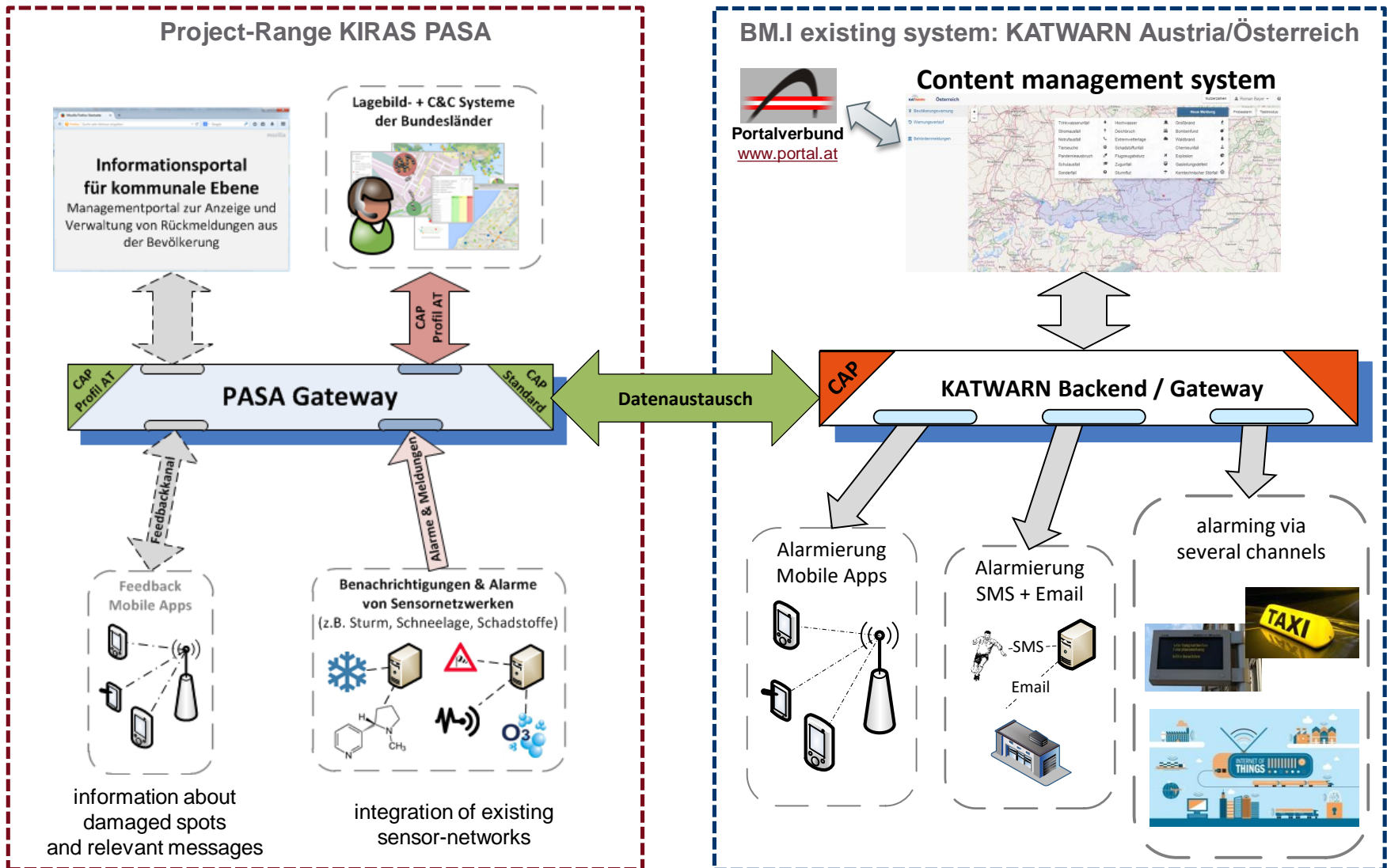
The main objective is an interface/gateway to existing information-systems

Connection of all federal alarm centers with the PASA-gateway

Connection of several measurement and monitoring system (water gauge, Austrian radiation early warning system, ground-level ozone measurement, etc.)

Connection to several existing warning and information systems at a local and federal level (warning and alerting system, apps, public screens, radio, television, cellbroadcast, etc.)

PASA in connection to KATWARN Austria



WARNING and INFORMATION System

What can we do devoid of electronic devices ?

Finally there are some pictures about rudimentary, easily installable and cost-efficient possibilities of informing and warning the public:

- a non automatic,
- a nonelectrical
- and a nonelectronic way

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Carrier Pigeon



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**Thank you very much
for your attention!**