



## Site acquisition process in Germany Framework, Regulation, Practice

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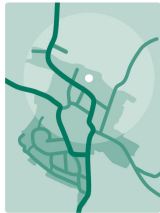
Presentation on the International Workshop on Final Results of Risk  
Communication Projects of the German Mobile Telecommunication Research  
Programme, October 18-19, 2006

# Outline

1. Site acquisition & realization
2. Legal framework
3. Inter-association agreement & voluntary commitment
4. Results\*
5. Outlook\*

\* Essential from the point of view of the four German operators  
T-Mobile, Vodafone D2, O<sub>2</sub> and E-Plus

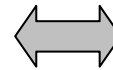
## Site acquisition & realization



Radio planning localizes region for new base station



Canvasser searches for building or areas for pylons



Involving the municipality in the site coordination



Contract with site owner



Fulfill legislative requirements



Info when putting into service to appropriate authority, Federal Network Agency **and municipalities**

## Legal framework - laws



### **Legal limit values for fields strength corresponding to ICNIRP**

26<sup>th</sup> Ordinance Implementing the Federal Immission Control Act (26<sup>th</sup> BImSchV)

Objective: protection and precautions of the public against electromagnetic fields (EMF)



### **Federal Network Agency: Site certificate determines safety distance**

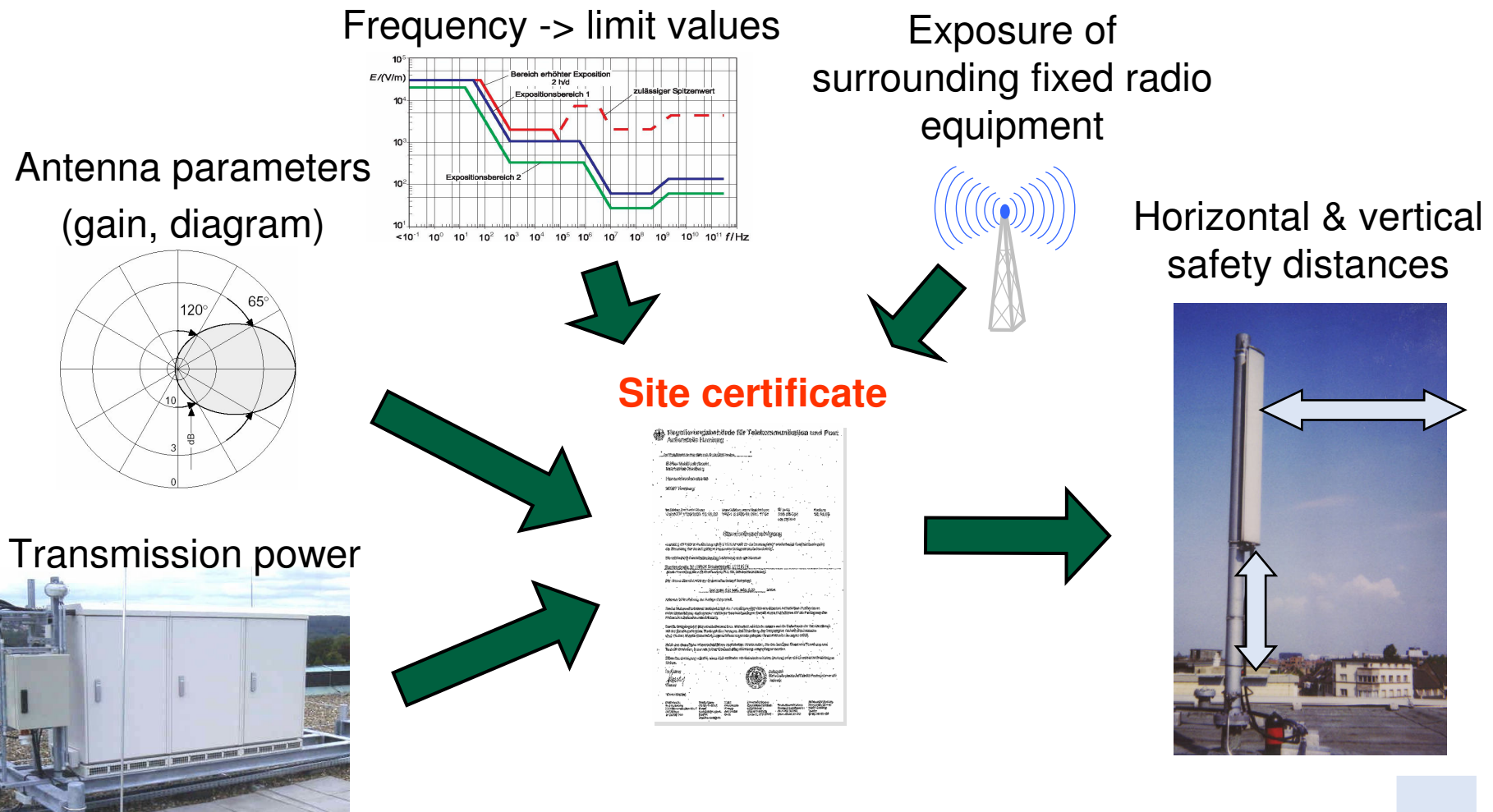
Order on the procedure for providing proof as regards limiting exposure to electromagnetic fields (BEMFV)

Objective: regulates the procedure for providing proof to ensure the safety of people in EMF of fixed radio equipment

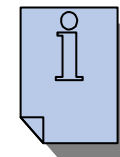
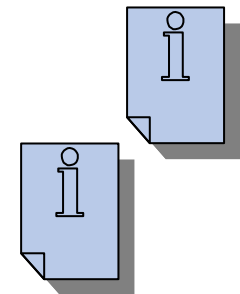
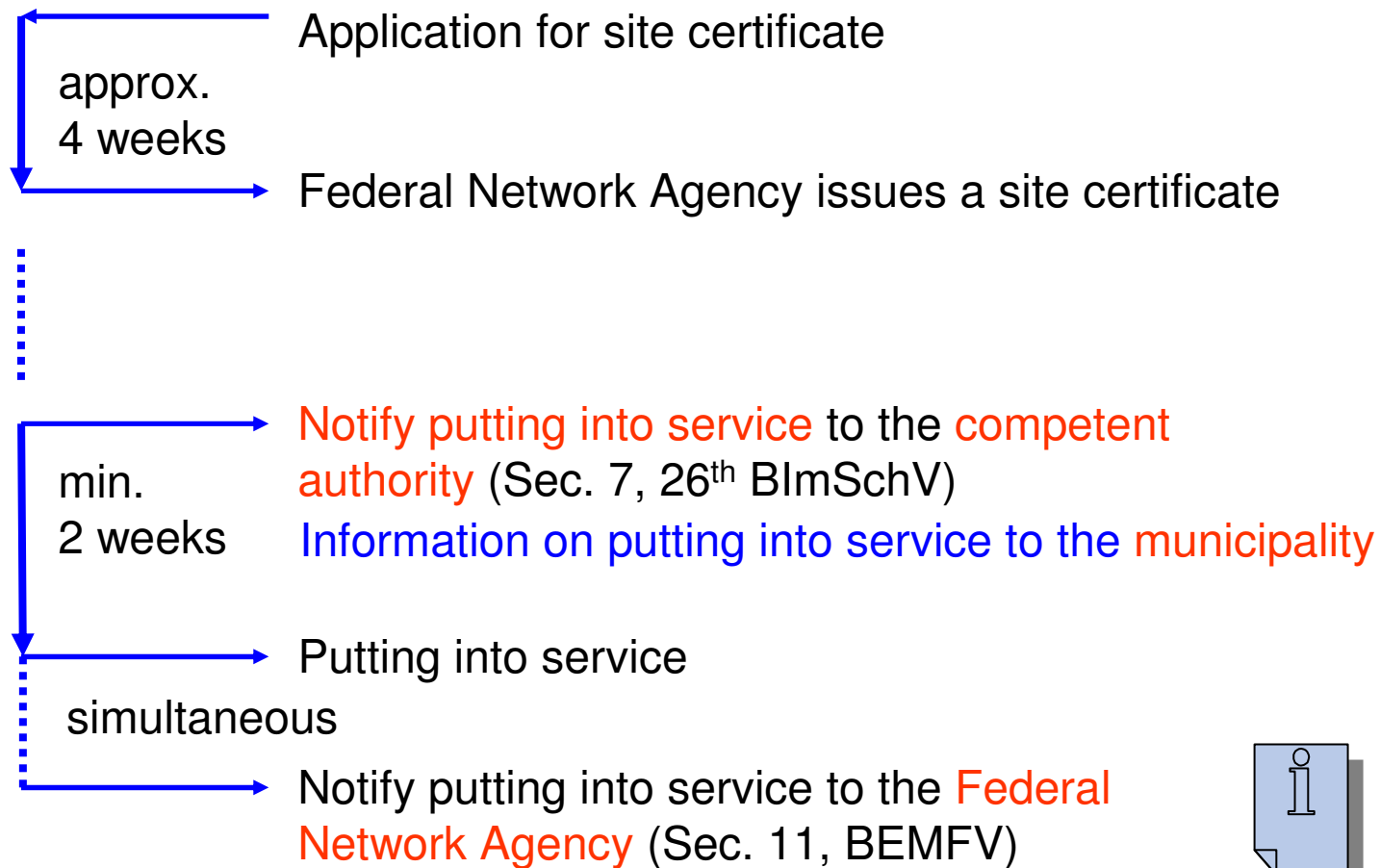
Additional limit values for people with active implants (9 kHz – 3 GHz)

Operator declare a controllable area (no access for the public)

# Legal framework – site certificate



## Legal framework – time flow



## Inter-association agreement I

“Agreement on the Exchange of Information and the Participation of Municipalities and Rural Communities in Mobile Radio Network Development, July 2001”

- Efficient mobile radio network infrastructure constitutes an **essential prerequisite for economic development in municipalities**
- Intensify research activities (EMF)
- To strive for finding mutually acceptable solutions, **safeguarding communal interests** and those of operators alike
- Improvement in information for the municipalities and citizens

## Inter-association agreement II

- Inform municipalities about plans before site decision is taken
- Examine proposals with priority and unbiased
- **Final site selection procedure** will be concluded within 8 weeks
- Information about date of begin of transmission before putting into service
- Operators will try to make optimum use of both existing and future sites, in the **interests of urban development**

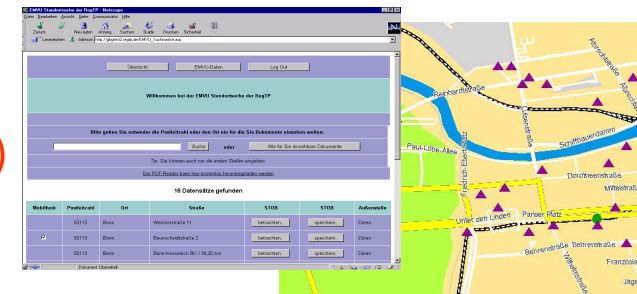


## Voluntary commitment I

“Measures for the improvement of security and consumer protection, environmental care and health protection, information and confidence-building measures with the upgrading of the mobile telecommunication networks,  
December 2001”

## Voluntary commitment II

- Successful model of cooperate responsibility to the community and the environment
- Extension to the inter-association agreement
  - Development of a **site database of the Federal Network Agency for municipalities**
  - Investigations of alternative locations in the case of kindergartens and schools.
- Responsibility in 4 areas
  - a) **Communication and participation (roll-out)**
  - b) Consumer protection and –information
  - c) Promotion of research (8,5 Mio. €)
  - d) **EMF monitoring system as an part of risk management (1,5 Mio. €)**
- Annual report from independent consultant to monitor development of the commitment



# Results I

What we commit – what we achieve

Inform municipalities about existing sites and planning

- Report 2004: 97% of the municipalities get this information always / often

Final site selection procedure will be concluded within 8 weeks

- Report 2005: 83%/100% get information about regions for new base stations (from the views of municipalities/operators)
- Report 2005: „*The operators are basically willing to consider the consulting cycles of the responsible committees.*“

Investigations of alternative locations in the case of kindergartens and schools

- Report 2004: in only 4 of 154 interviewed municipalities base station are installed on such buildings
- Report 2005: „... detailed interviews confirm that the majority of the operators respected the wishes of the municipalities regarding sites who are in public focus..., as far as this was possible to be in line with the planning.“

## Results II

What we commit – **what we achieve**

Inform citizens in coordination with the municipalities

- Report 2005: Support of municipalities to inform citizens  
18% good; 26% mostly good; 35% variable good
- Report 2005: „... high attendance of the operators to stand to discussions,  
... participation at political meetings ...“



## Outlook

- The operators fulfill their commitments on a high degree. Over the years this is reflected in continuous improvements.
- With the implementation of the commitments the economically reasonable and justifiable measure is achieved - not only from the operators point of view.
- It is the objective of the operators to fulfill the commitment also in the future in its entirety.