

Ubiquitous networked computing

IPv6TF

23-04-2001

Brussels

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Philips Research

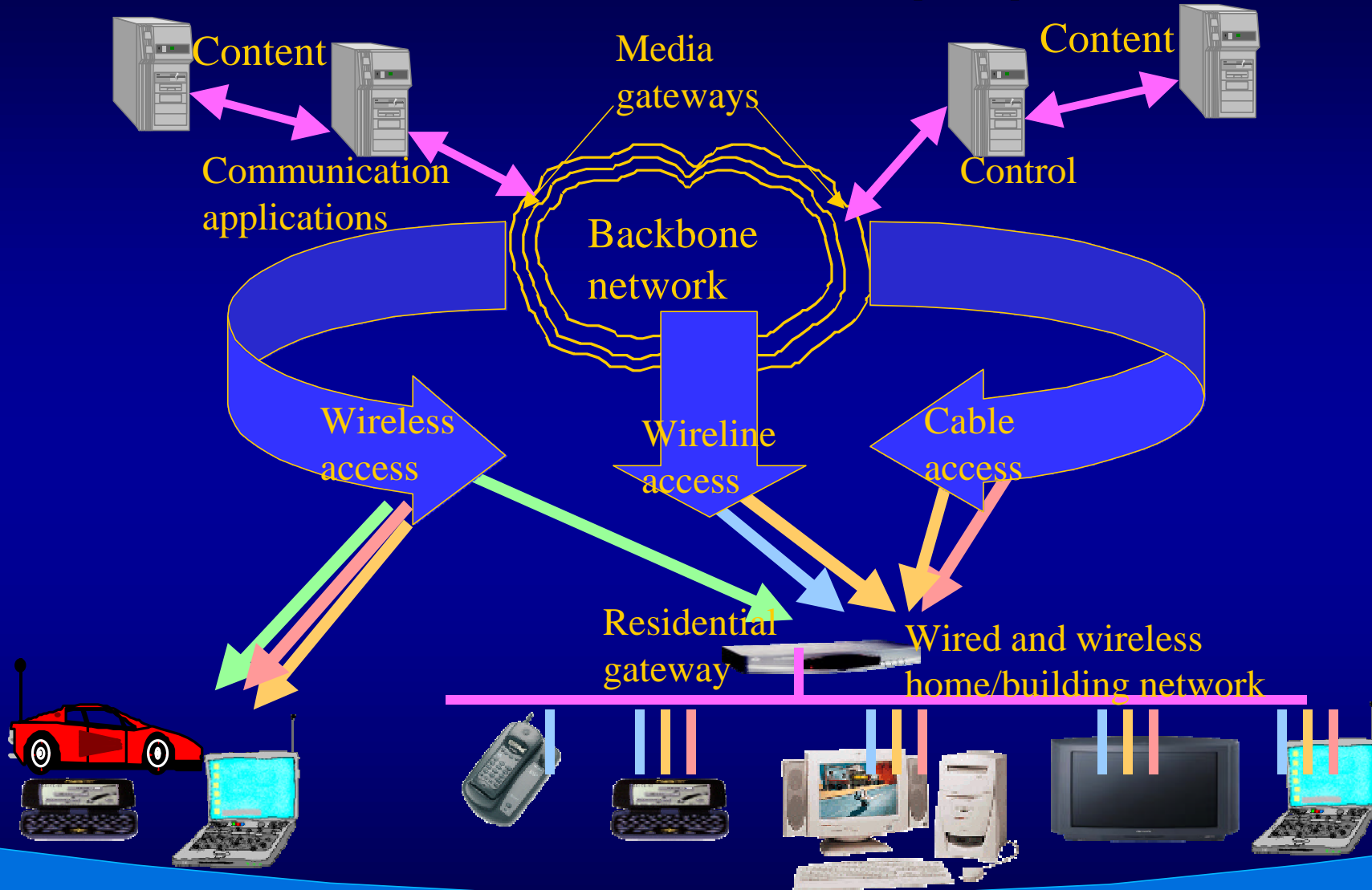
Information and Software Technology

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Multi service network & multi purpose devices



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Applications at home

- **Infotainment**

- games
- e-paper, e-magazines, e-book
- music
- movies and documentaries



- **Control and security**

- light, heating and air-conditioning
- camera's, locks and alarm

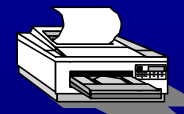


- **Communication**

- voice, video, e-mail



⇒ **Ease of use and
Increase quality of life**

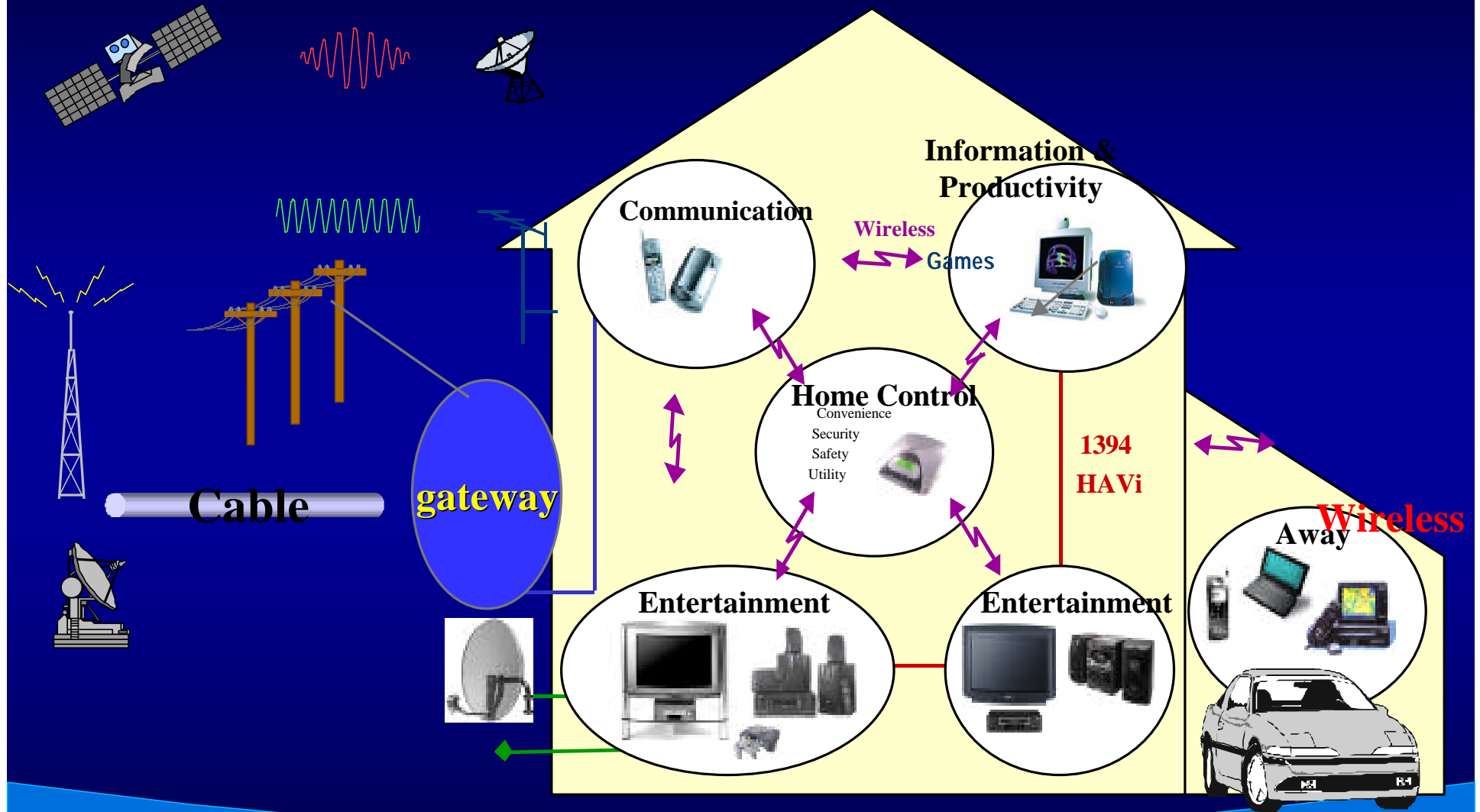


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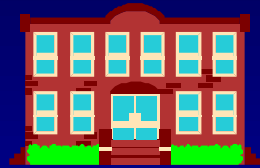
Home connected to the world



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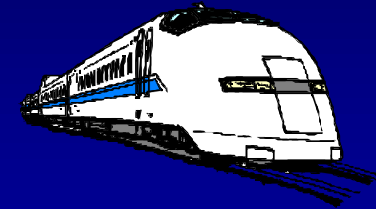
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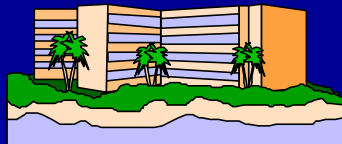
Public buildings
City



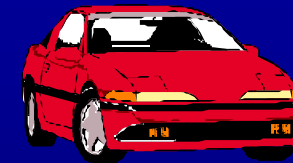
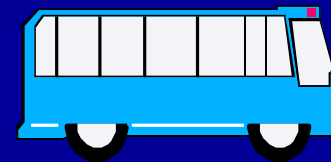
Outdoors



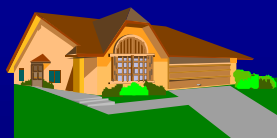
Public transport



**Enterprise/
campus**



Private transport



Home

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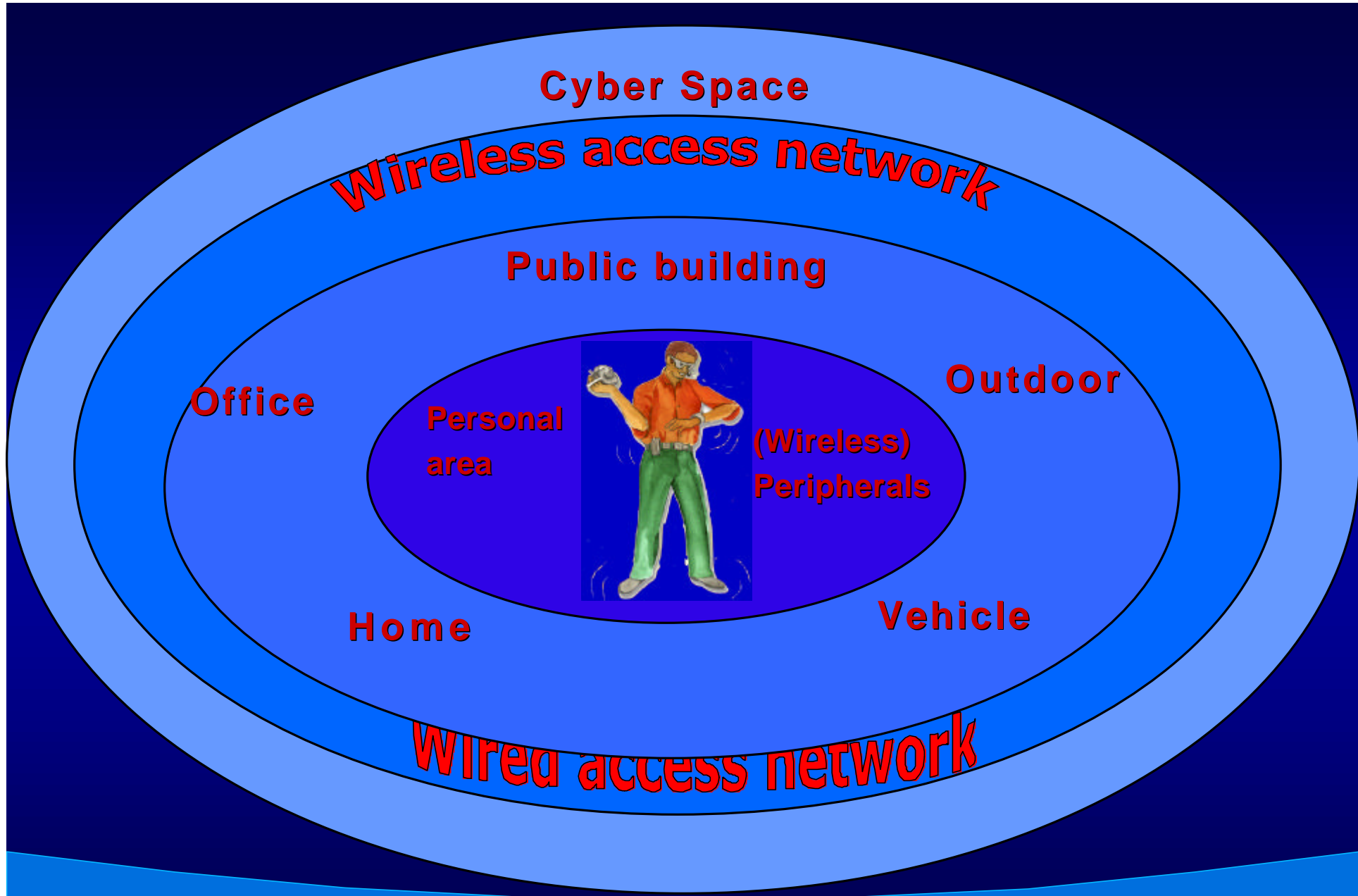
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More in the future...

Ambient intelligence

(people centric, environment is the interface)

- Ubiquitous networking
- Ubiquitous computing
- Intelligent social user interfaces

Requires:

- ad hoc network connections
- broadband always on
- mobility (horizontal and vertical handover)
- dynamic configurable and adaptable networks and services

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Involved stakeholders

- **Consumers**
- **Equipment suppliers**
- **Network equipment suppliers**
- **Access providers**
- **Network operators**
- **Content distributors**
- **Content owners**
- **Regulation and legislation organisations**

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How to influence?

Address all stakeholders:

Convince them of the benefits of IPv6 for their problems

Use existing consortia, interest groups and forums to spread the message. Some examples are:

ATVEF, DVB, OSGi, UPnP,

Home PNA, HomeRF, HPA, HAVi, X-10, LON,

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Conclusion

- The use of the Internet protocols offers a lot opportunities for the multiservice networks and multipurpose devices.
- IPv6 especially addresses a number of important challenges.
- Migration strategy is needed
- The acceptance of new technology however is not only based on technological advantage.

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**Thank you
for your attention**

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