

The Smart IPv6 Building in brief



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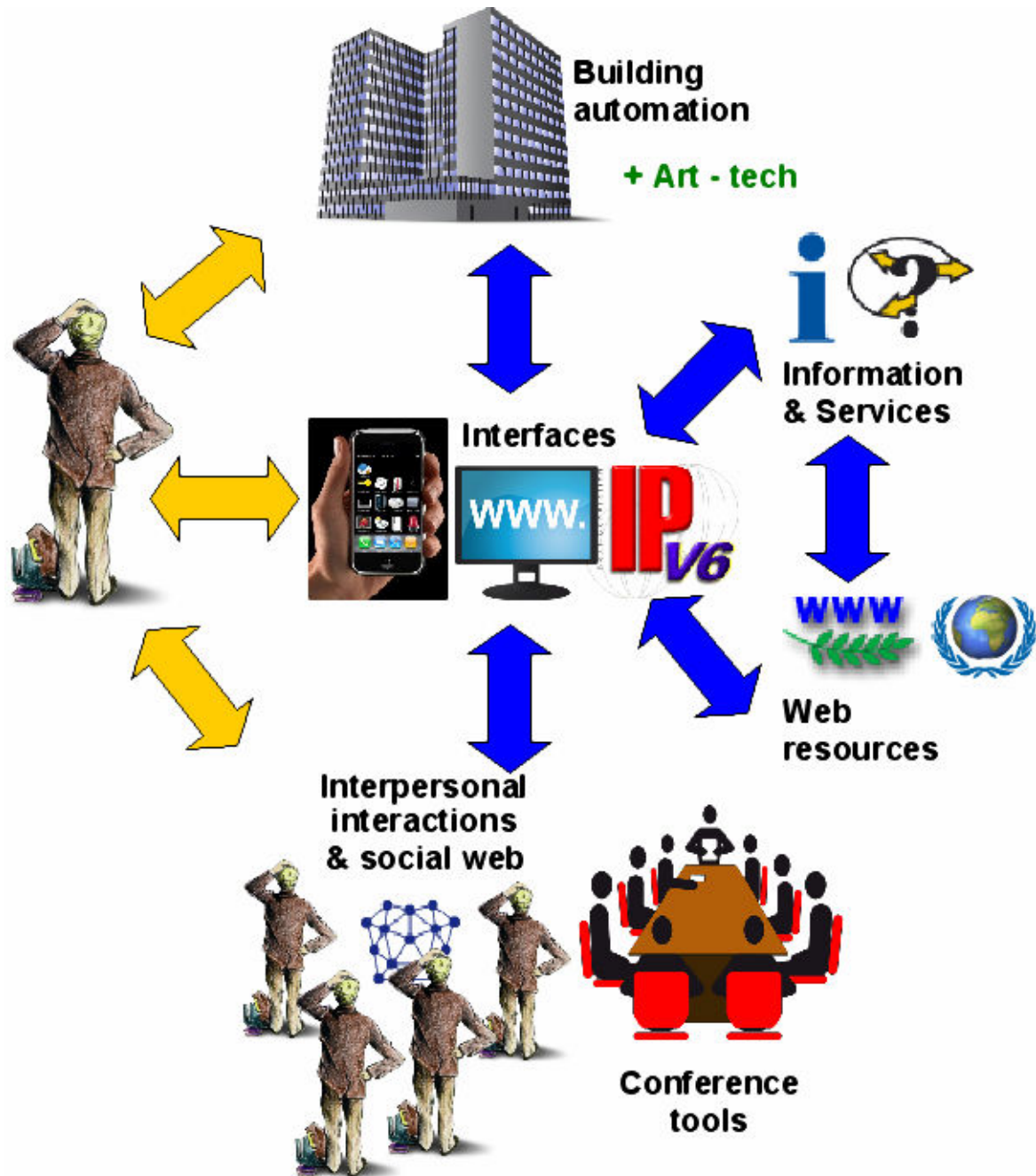
Information and Communication Technologies (ICT) have reshaped our world. The emergence of the new Internet Protocol version 6 (IPv6) will further transform our environment. It will enable billions of devices to have their own IP address, to be interconnected and to work together. It is paving the way to the future Internet of things, in which sensors, actuators and devices will be directly connected to each other, with an almost unlimited scalability. The **Smart IPv6 building** project intends to explore this IPv6 potential in built environments. It will test innovative forms of interactions, by transforming buildings into smart and interactive environments, with pervasive and distributed intelligence. It will also develop the potential of IPv6 to improve buildings' energy efficiency and to reduce greenhouse gas emissions through a smarter building management. The Smart IPv6 building provides an international platform for research, academic and industrial partners,- coordinated by [Mandat International](#) with the support of the [IPv6 Forum](#).



The Smart IPv6 building project will be deployed and tested in a real situation with an existing building, and latter with a new construction in the middle of the international organizations area in Geneva: the "[International Cooperation House](#)". This building will provide budget accommodation and support for experts and delegates with limited resources coming from developing countries to attend international conferences, as well as offices for organisations working with the UN system. The central location and high visibility of this new building will be used to showcase and promote IPv6 based technologies.



Conceptual scheme



International Cooperation House

Geneva is the largest hub of international cooperation, housing many international organizations' headquarters. Every year, almost **200.000 delegates** and experts converge here in order to attend one of the 4'000 international conferences. Those coming from developing countries represent the vast majority of the international community. However, their lack of resources limits their participation in many important conferences.



The Mandat International foundation plans to build an "**International Cooperation House**" in Geneva, in the heart of the international organizations area. It will support international cooperation by providing:

- **Budget accommodation and support for experts and delegates coming from developing countries** with limited resources.
- **Office space** for organisations working with the UN system.
- **Meeting infrastructure:** conference and meeting rooms, an exhibition area, etc.
- **Public and cultural activities:** with a cafeteria, a terrace, a public park, cultural activities and exhibitions.

The central location and high visibility of this new building will be used to **showcase and promote new technologies** with:



- The "**Smart IPv6 Building**" approach, using the new Internet protocol (IPv6) in order to improve information access, energy efficiency and security in the building.
- **Green technologies** preserving the environment and reducing energy consumption.

The project is supported by the public and private sectors, including academic and industrial partners, as well as the Swiss and Geneva authorities.

Mandat International (www.mandint.org) is a strictly apolitical foundation based in Geneva, with special consultative status to the UN. Since 1995, it aims and acts to:

- Promote international cooperation and dialogue.
- Welcome, inform and facilitate the participation of delegates attending international conferences.
- Accommodate and support delegates coming from developing countries.

More information is available on www.internationalcooperationhouse.org