Bonjour, les amis!

Unwrapping the Transformation of Paris as a Smart City
From Napoleon III to the 2024 Olympic Games

IEEE
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Welcome to a World of Smart Cities ... 
... And What’s That?
What is a Smart City? Six Domains

- Smart Mobility
- Smart Economy
- Smart People
- Smart Government
- Smart Living
- Smart Environment
The Rue des Marmousets, one of the narrow and dark medieval streets on the Île de la Cité, in the 1850s.

*Les Misérables* by Victor Hugo portrays the harsh life of young Parisian Cosette.

“Cosette” by Émile Bayard, from the original edition of *Les Misérables* (1862).
- Provide clean air, space, light, water and views of the city landmarks

- Improve traffic circulation: Radial Layout of Paris Streets

- New Boulevards, Parks, Buildings and Public Works

- Emphasis on Enjoyment and Quality of Life

- Beautify the City
The Original “How to” - Evolution of Paris as a Smart City

- Enlarged city limits 12 + 8 = 20 arrondissements
- Urban planning
- Standards and codes
- Distinctive appearance
- Directed planning
- Preserved core identity
Incorporating Nature, a Human-Centered Approach

Social Psychology in the built environment

Encourages interactions, facilitates relationships, healthy living by walking, cycling

Haussmann’s major parks at cardinal points:
- Bois de Boulogne, west
- Bois de Vincennes, east
- Buttes-Chaumont, north
- Parc Montsouris, south
Le Parc Monceau, Paris 8, an Elegant Playground
Bold Innovation: Opéra Garnier to the Opéra à la Bastille

Major monuments and building constructed

Palais Garnier, Grand Escalier, 1875, Paris 9

Opéra de la Bastille, Exterior, 1989, Paris, 12
Garnier Ceiling Embellished with Chagall; Heritage Preserved

https://www.architecturaldigest.com/story/marc-chagall-opera-ceiling
Getting Around: Always a Priority

A Paris omnibus in 1828, an early transportation network

Paris Metro – cheapest, fastest way to get around Paris, 1900-1920
Would You Commute by CABLE CAR?

A rendering of Cable 1, a proposed new cable car system set to open in Paris by 2025.
Paris, Anywhere in 15 Minutes

Pros
Reduced traffic, pollution
Convenience

Cons
Logistics
Integration w/Public Transport
Iterative Progress Towards a Smart City Ideal

Mayor Anne Hidalgo:

- A bike path on every street
- Removed 60K parking spaces
- No cars on Sunday along the Seine
- Lockdown: Added 50 km more bike paths
- Multiple-use for public buildings
- Integration of bike paths, metro, buses, and car-free zones
- Green mobility

- **Sustainability**
- **Transportation**
- **Economic Vitality**
- **Resiliency**
- **Tech Innovation**
- **People-Centered + Inclusive**
- **Neighborhood interactions**
- **National Pride - “l’amour des lieux”**
- **Jane Jacobs, not Robert Moses**
Cycling Infrastructure for a Smart Paris
Communications: “la Poste Pneumatique” 1866 – 1984

Showcasing Technology Innovations

Carte pneumatique envoyée du Grand Hôtel en 1903.
Telecommunications prior to the WWW: Minitel, Videotext (1980 – 2012)

- Make online purchases
- Make train reservations
- Check stock prices
- Search the telephone directory
- Have a mail box
- Chat
- Message boards
- Information services
- Databases
Integrating Effect of “Son et Lumière” - Immersive Sound and Light Shows
The City of Light, Ville Lumièrè
People, Heritage and National Pride
Paris: the Perfect Venue for the 2024 Olympic Games

Jeux Olympiques and Paraolympiques: de Paris 2024: 26 July au 11 August 2024
@jeuxolympiques free admission for many spectators

Paris 2024 Olympic Games by the numbers

- Billions of television viewers worldwide
- 350,000 hours of TV broadcast
- Millions of spectators
- 41 venues
- 10,500 athletes
- 20,000 accredited journalists
- 31,500 volunteers
- +600,000 meals served at the Athletes’ Village every day

- The XXXIII Olympiad
- 26 July to 11 August 2024
- 19 days of competition (handball, football and rugby take place from July 24th)
- 329 events
- 28 sports + (including 4 additional sports)
- 206 National Olympic Committees
- 758 sessions
Electric Air Taxis Planned for the 2024 Paris Olympics
Opening Ceremonies Like No Other – Seine River

https://www.paris2024.org/en/ceremony
Showcases Existing Infrastructure, Monuments, Smart City Features
Closing Ceremonies – Stade de France
Why Paris is a Great Choice for the 2024 Summer Olympics

1. Historical Significance, Iconic Landmarks
2. World-Class Infrastructure
3. Cultural Diversity and Hospitality
4. Commitment to Sustainability
5. Athletic Legacy and Sporting Facilities
“Paris is always a good idea,” per Audrey Hepburn

Thank you!

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