Smartphone and Mobile Territories – Technical Knowledge Transformed into an Object Producing New Territorial Layers

An Experience in the City of Strasbourg

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Esin Ekizoglu, PhD student in Architecture, Dipl. Architect, Laboratory EVCAU , Laboratory ICT, Paris

Prof. Dr. Elizabeth Mortamais, Dipl. Architect-Landscape Architecture, Laboratory EVCAU, Paris

Structure of Presentation

- Introduction/Context
- Methodology
- Analysis and results
- Conclusion

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Introduction/Context

The phenomenon of Big Data

⇒ accompanies the evolution of the use of the smartphones

⇒ and enriches it. (Weiss and Indurkhya, computer science, 1998
and Diebold, statistics/econometrics, 2000)

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The Smartphones

⇒ objects producing urban layers

⇒ one of the individualized technical objects

⇒ build a new urban relationship. (Picon, 2014)

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Our goal: to explore **the links created by the smartphones**

by using **the cartography** of the city of Strasbourg

and **the principles of the Big Data phenomenon**

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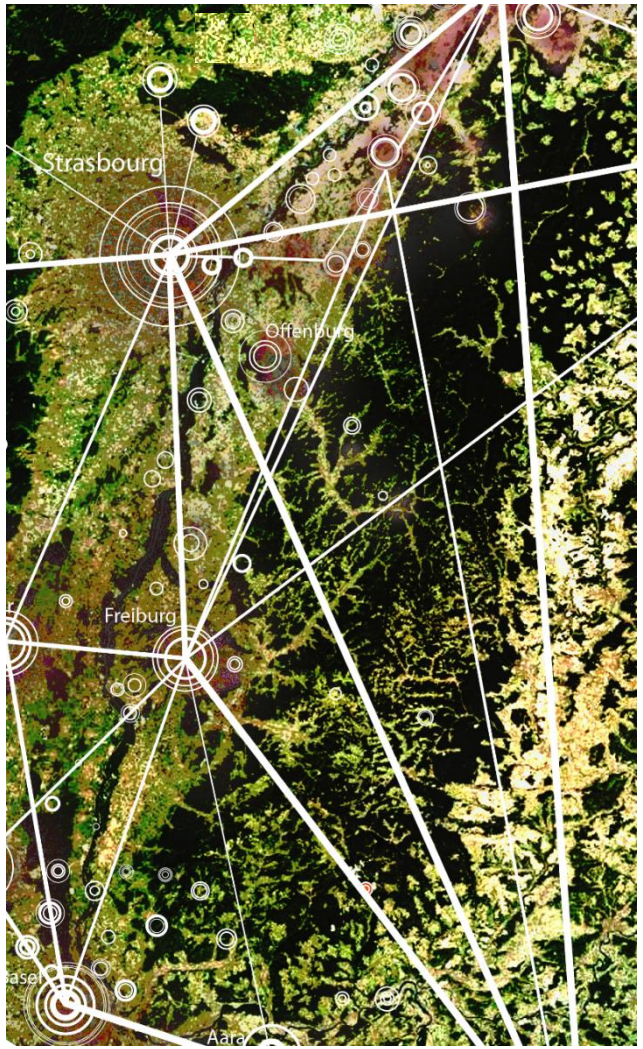
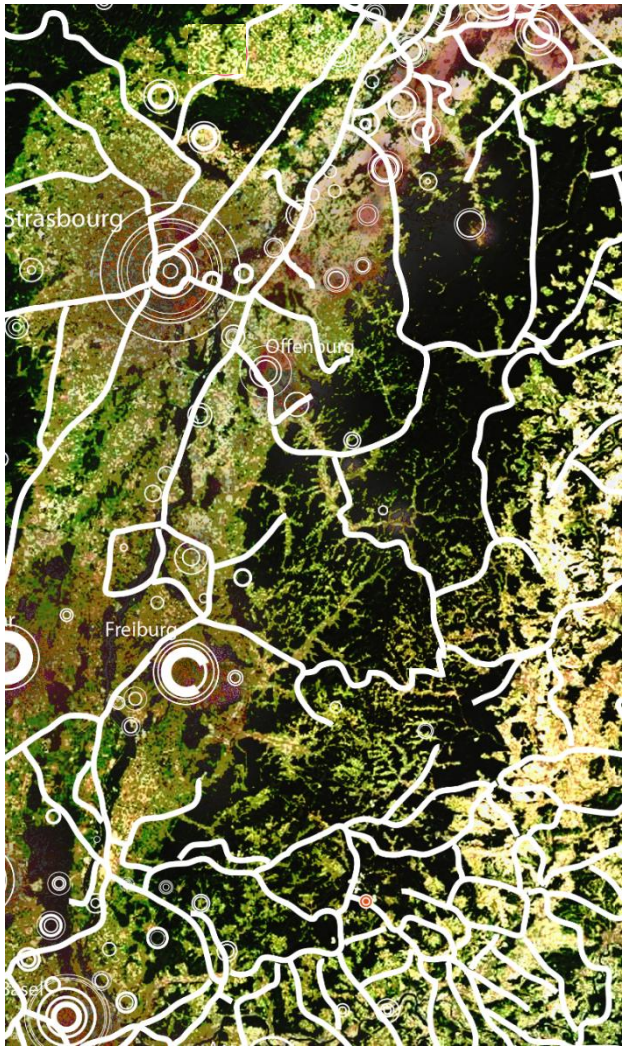
Introduction/Context



The place of Strasbourg in its context

Road axis
The mash prioritizes the territory.



Railway axis
It is a discontinuous territory coverage.

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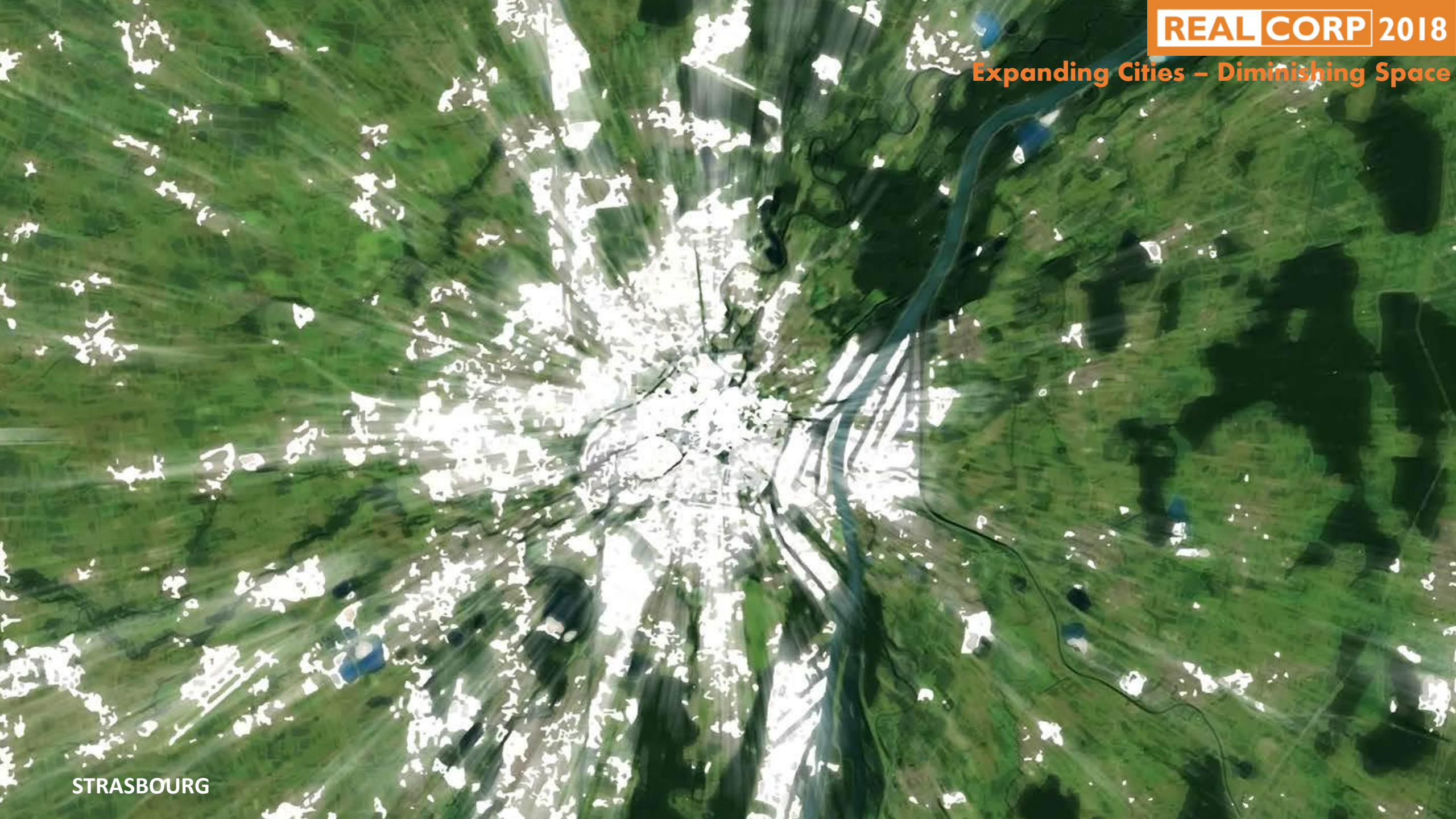
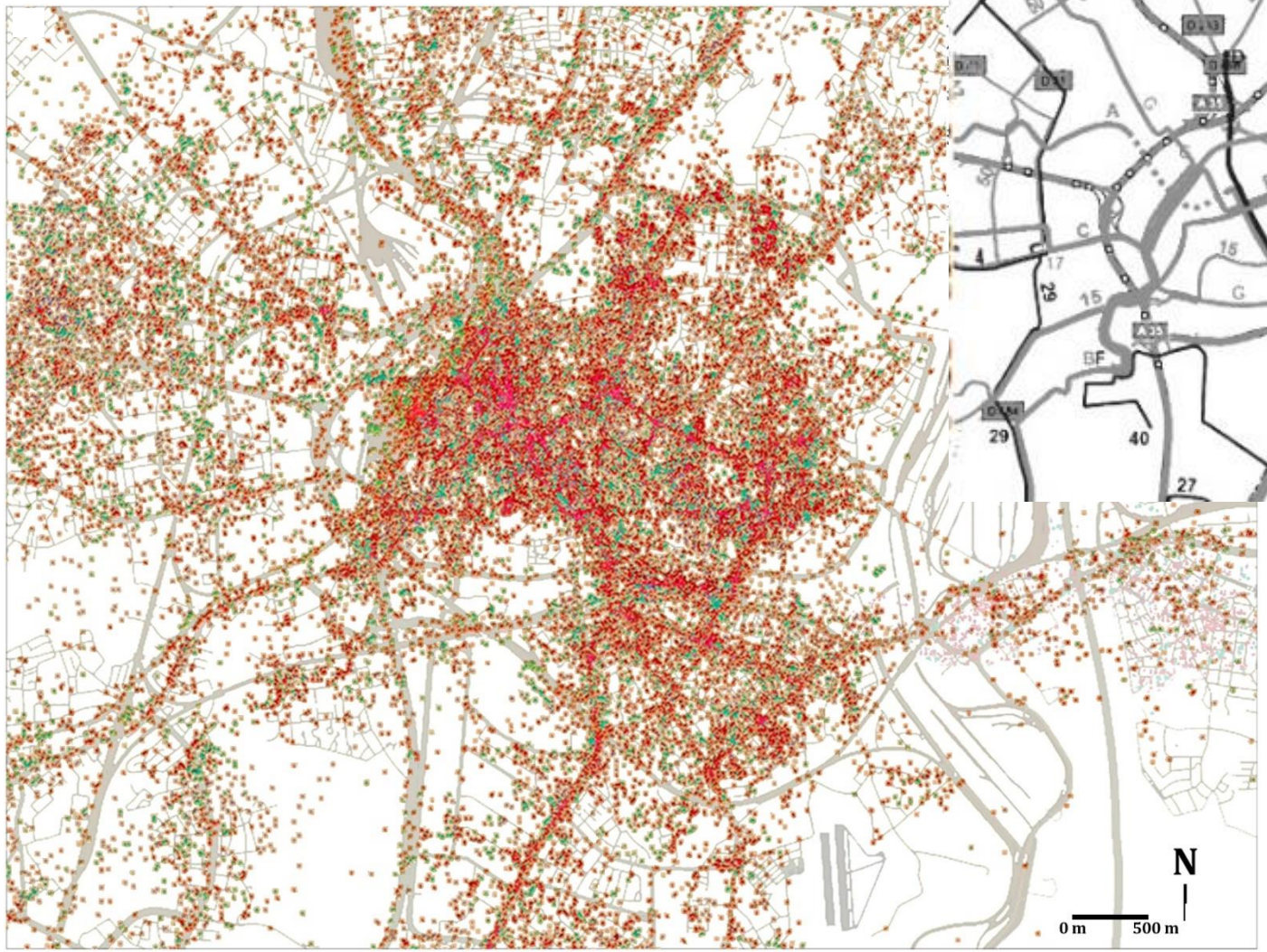


STRASBOURG

Methodology

Mobile territories



Flow elements

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Methodology

The study is done

⇒ by sending screenshots of the applications in use in public space.

⇒ with the record of the daily journeys via "Open GPS Tracker" application.

⇒ during one week.

⇒ in a total of 70 journeys.

⇒ by correlating and by superimposing cartographically physical places frequented and digital activities carried out on each journey.

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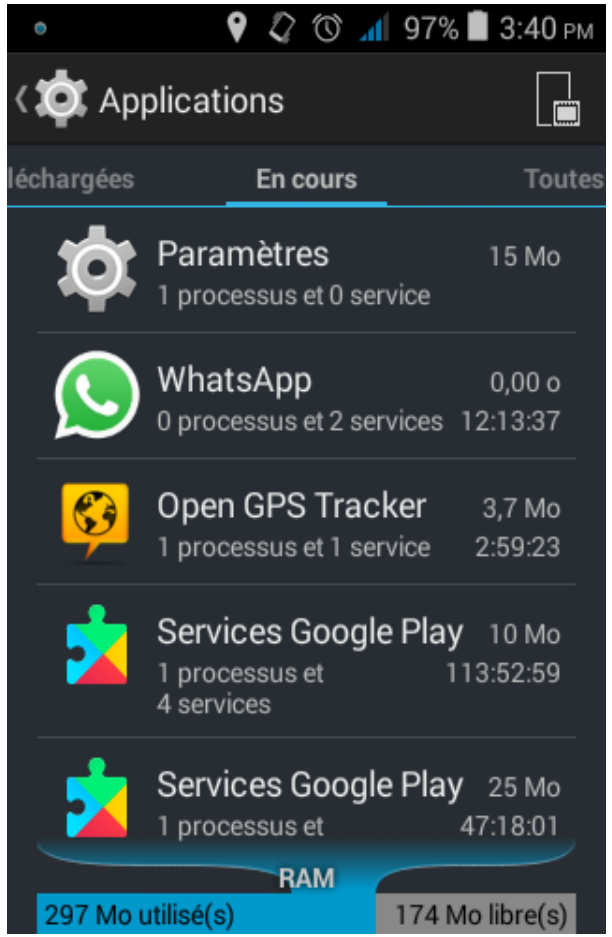
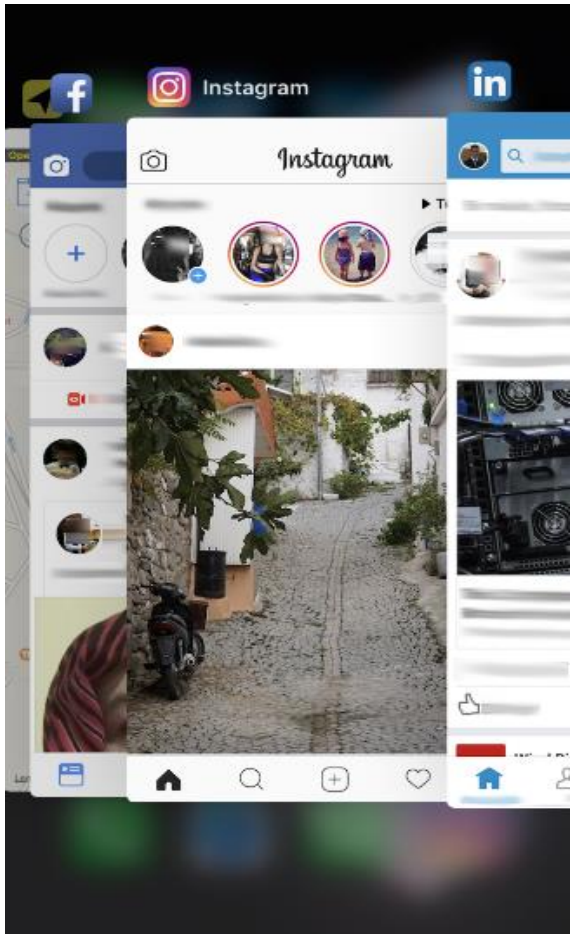
27% 21:46
Téléphone
Horloge
A-faire
Actualités et
Actualités locales


97% 3:40 PM
Applications
En cours
Paramètres
15 Mo
1 processus et 0 service
WhatsApp
0,00 o
0 processus et 2 services
12:13:37
Open GPS Tracker
3,7 Mo
1 processus et 1 service
2:59:23
Services Google Play
10 Mo
1 processus et
4 services
113:52:59
Services Google Play
25 Mo
1 processus et
47:18:01
RAM
297 Mo utilisé(s)
174 Mo libre(s)


Instagram
Instagram

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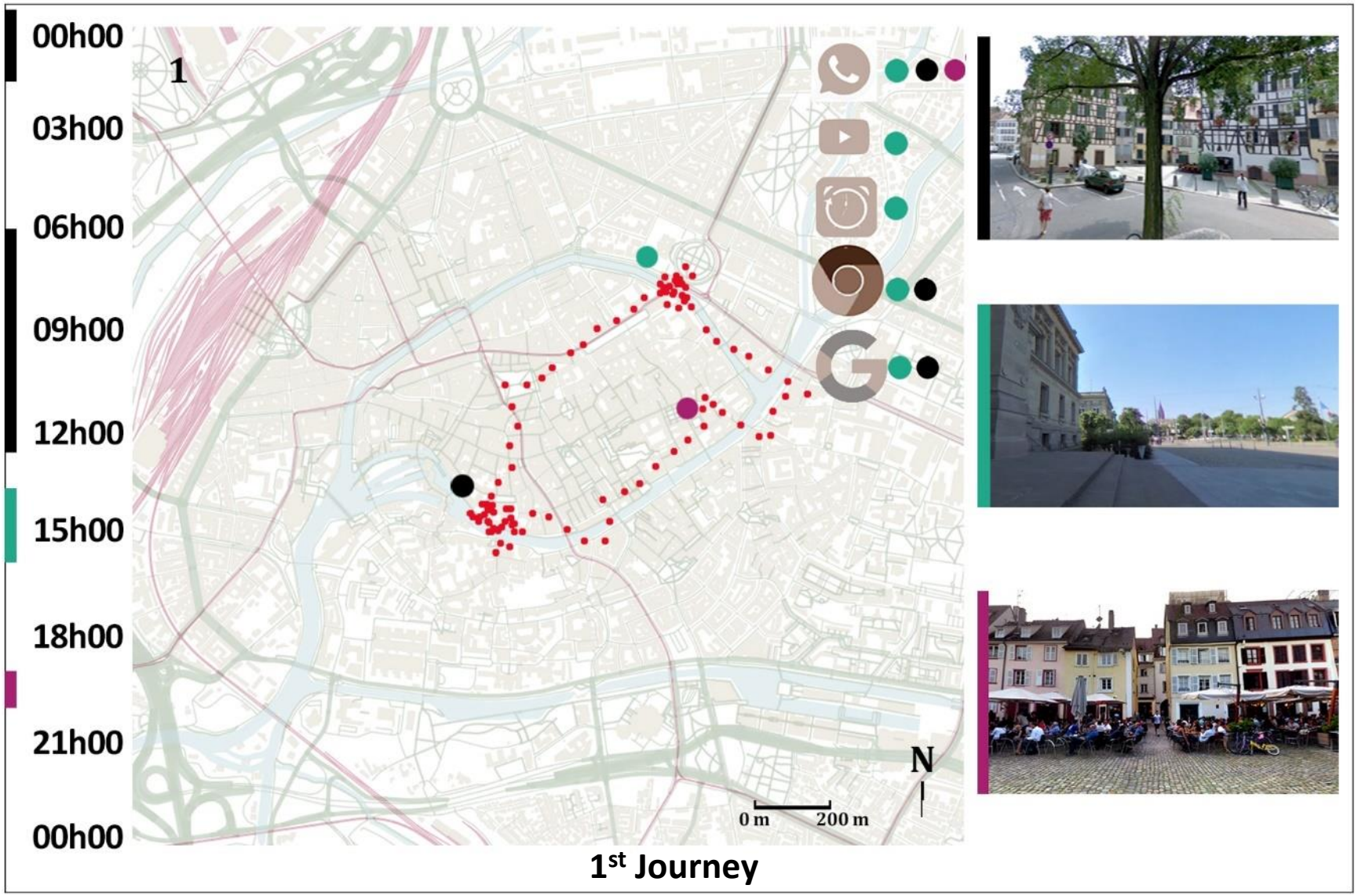
Analysis and results



1st Journey

Correlation and by superimposing of physical places frequented and digital activities

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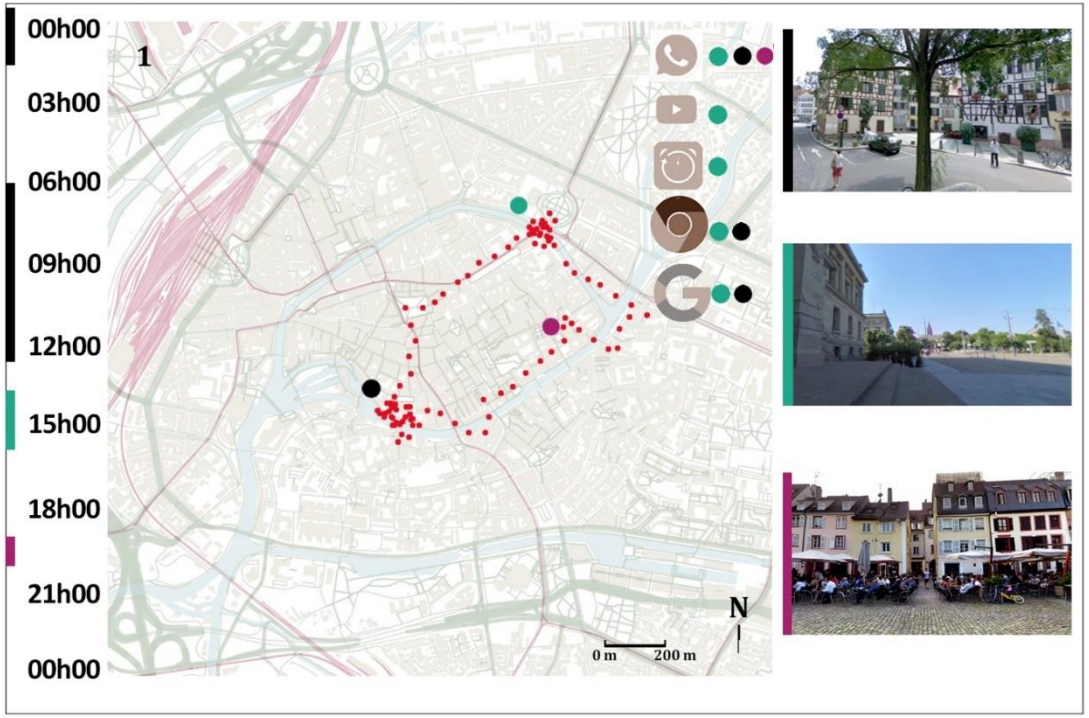
Analysis and results

Number of Journey	Date	Distance (km)	Duration (h:s:ss)	Average (km/h)	Frequented places	Period of time
#1	25/07/2017 (UTC+02:00)	2.0	21.04.18	0.1	District of "Haras"(1), "République" Square(2), "Marché Gayot" Square (3)	00:00:00-13:34:13(1) 14:09:02-17:36:30(2) 17:42:05-19:03:26(3) 19:22:16-21:04:18(1)



Correlation and by superimposing of physical places frequented and digital activities

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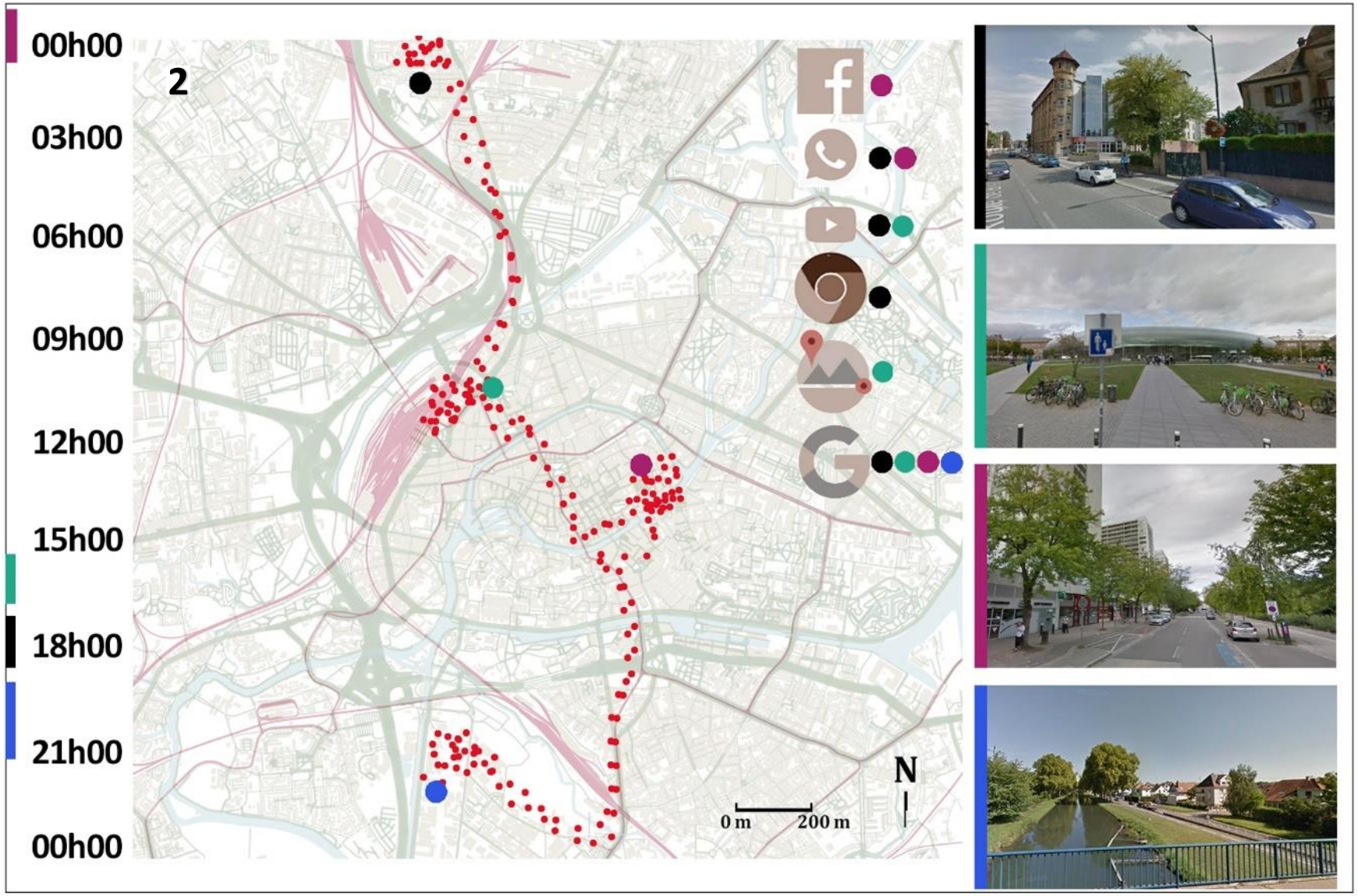

Correlation and by superimposing of physical places frequented and digital activities

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Analysis and results

Number of Journey	Date	Distance (km)	Duration (h:s:ss)	Average (km/h)	Frequented places	Period of time
#2	13/10/2017 (UTC+02:00)	20.1	21:43:44	0.9	Esplanade(1), Neudorf(2), Esplanade(3), Station area (Gare de Strasbourg) (4), "Halles" Square(5), Bischheim(6), Meinau(7)	00:00:00-00:24:05(1), 00:29:44-12:36:48(2), 12:50:17-13:43:00(3), 13:52:03-15:17:39(2), 15:23:15-15:37:15(3), 15:59:05-16:03:04(4), 16:14:07-16:20:04(5) , 16:36:11-18:11:09(6), 19:03:26-21:43:44(7

Correlation and by superimposing of physical places frequented and digital activities

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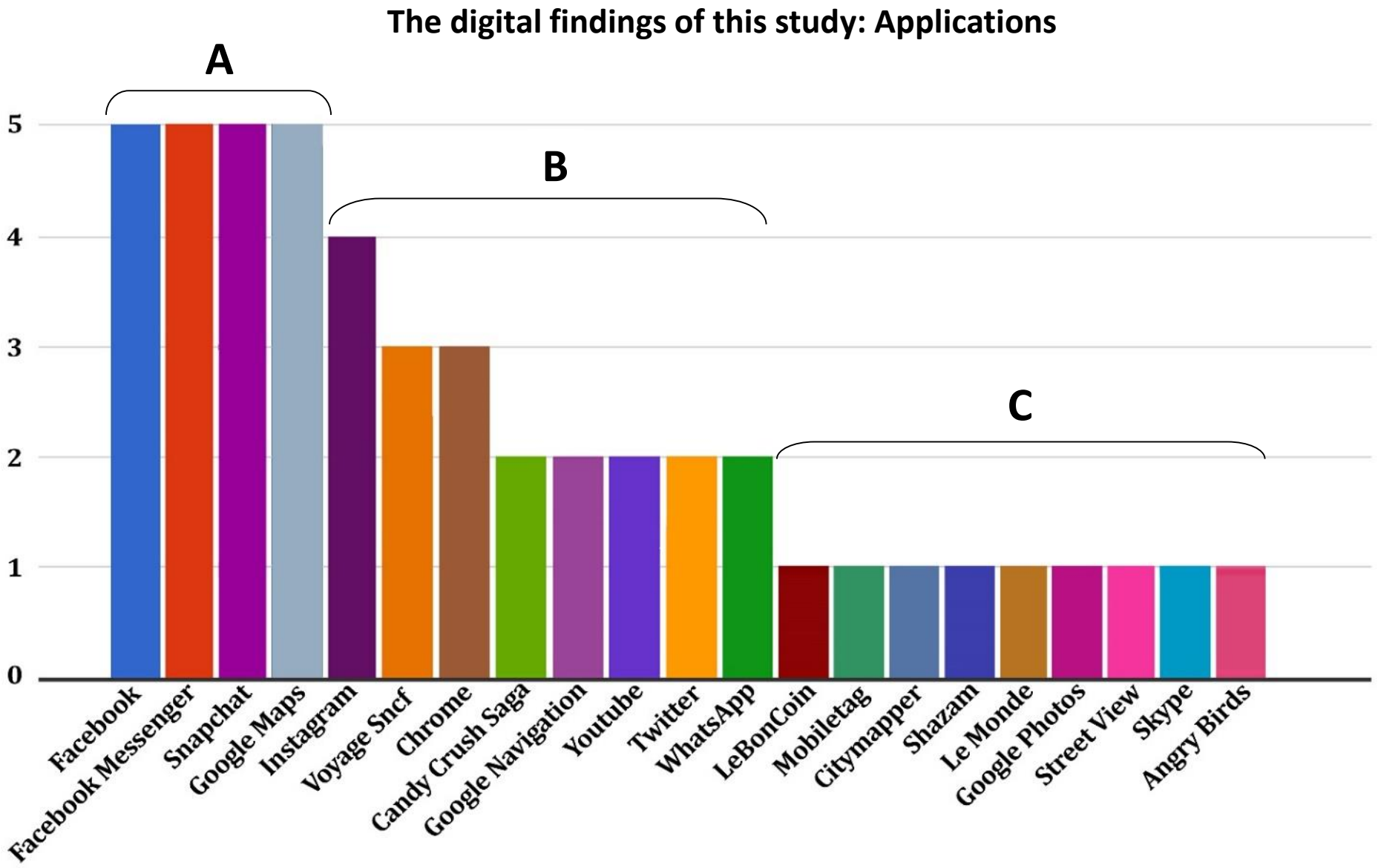
Analysis and results



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MOBILE TERRITORIES OF STRASBOURG

Conclusion

The Mobile territories are parts of the big data phenomenon; **composed and decoded frame by frame.**

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- **Our findings showed**
  - **the first public places** are with possible interaction **between the virtual spaces** and **traditional infrastructures.**

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- **The technological knowledge**
  - becomes a means of change in the relationships between **the people leading to social innovation**; the use of the smartphones is an example.

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Conclusion

The Mobile territories are parts of the big data phenomenon; composed and decoded frame by frame.

- Our findings showed
  - the first public places are with possible interaction between the virtual spaces and traditional infrastructures.

- The technological knowledge
  - becomes a means of change in the relationships between the people leading to social innovation; the use of the smartphones is an example.

- **The permanent connective intelligence**
  - represents a valuation of the forms of mobile territories;
  - will certainly lead to a territorial innovation.

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Thank you

esin.ekizoglu@etu.univ-paris-diderot.fr
elizabeth.mortamais@paris-valdeseine.archi.fr