Transports en commun dans les PED : Auto-organisation et Modélisation

Léa Wester



Aix*Marseille université







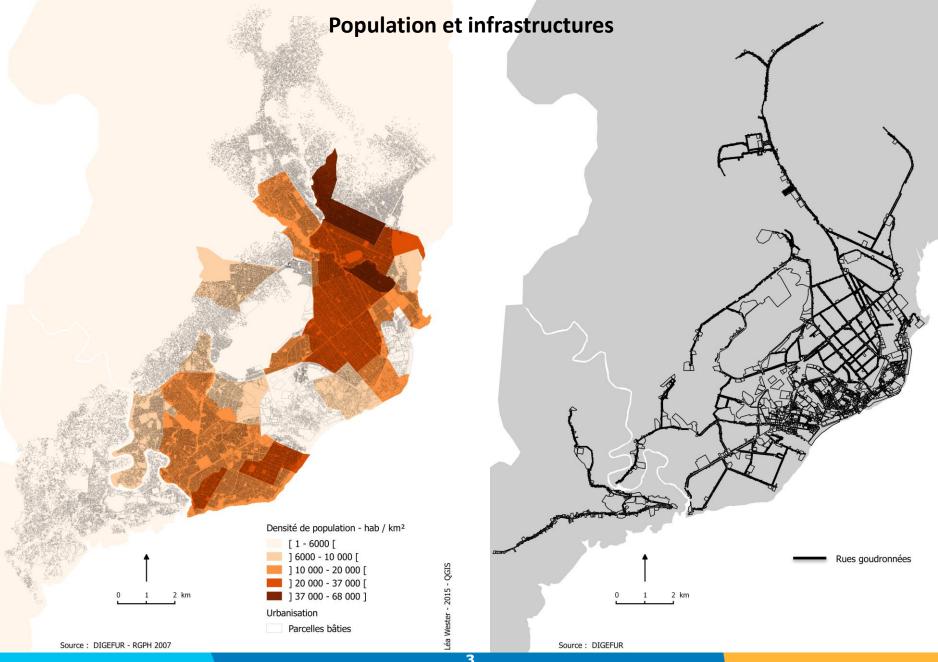




Brazzaville



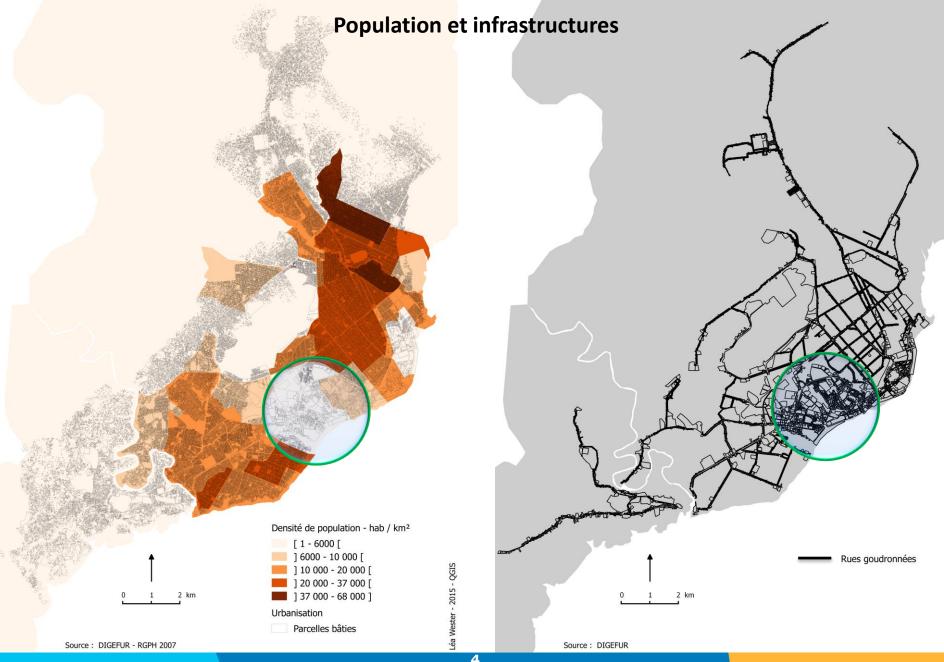




Brazzaville

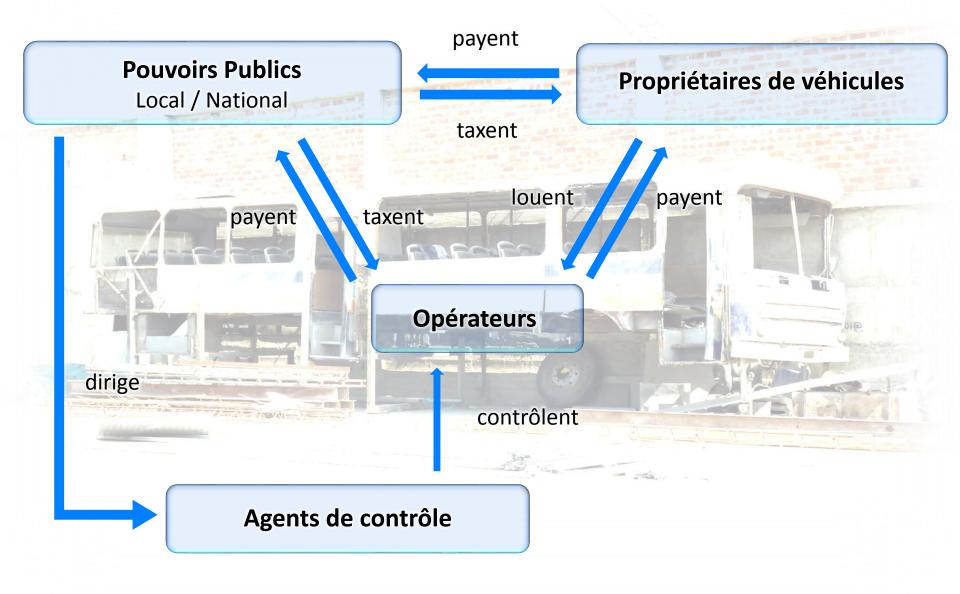






Le système Brazzavillois

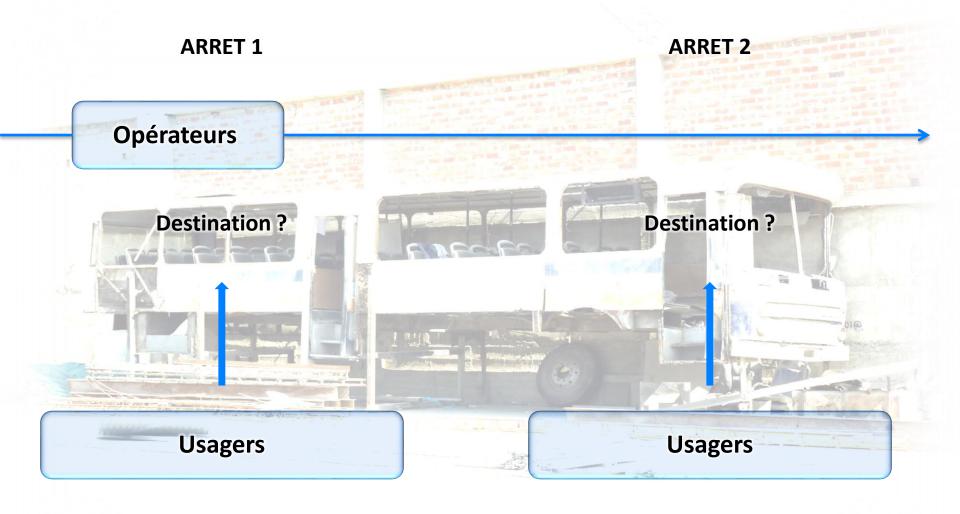






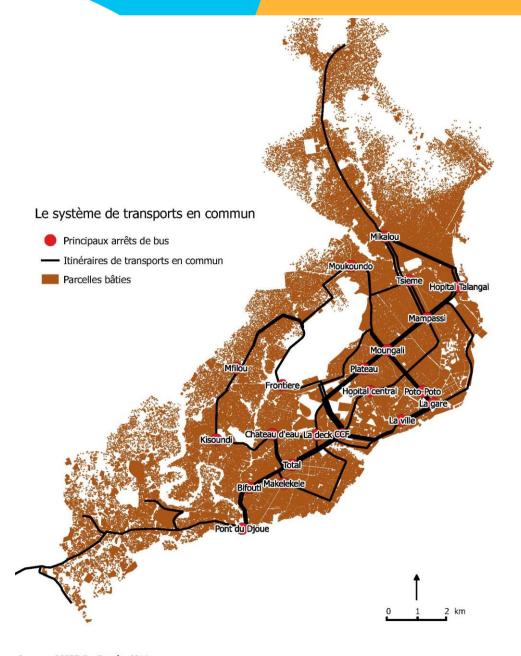
Le système Brazzavillois









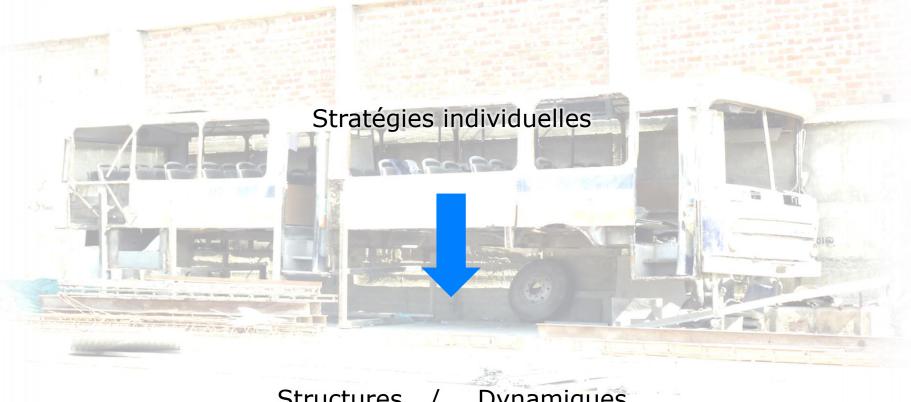




Objectifs du modèle



Caractériser les structures et les dynamiques spatiales des transports collectifs informels de la ville de Brazzaville



Structures Dynamiques

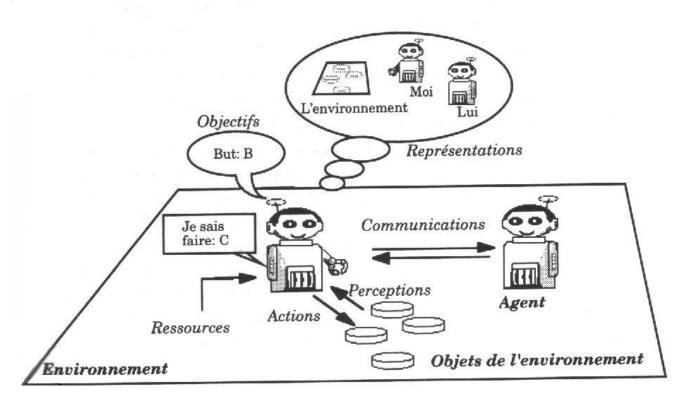


Approche individu-centrée





Modélisation Multi - Agents



(Ferber, 1995)



Environnement





Graphe

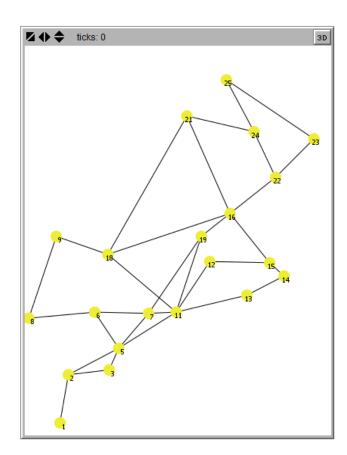
Points

Arrêts de bus



Demande

Usagers avec une destination



Liens

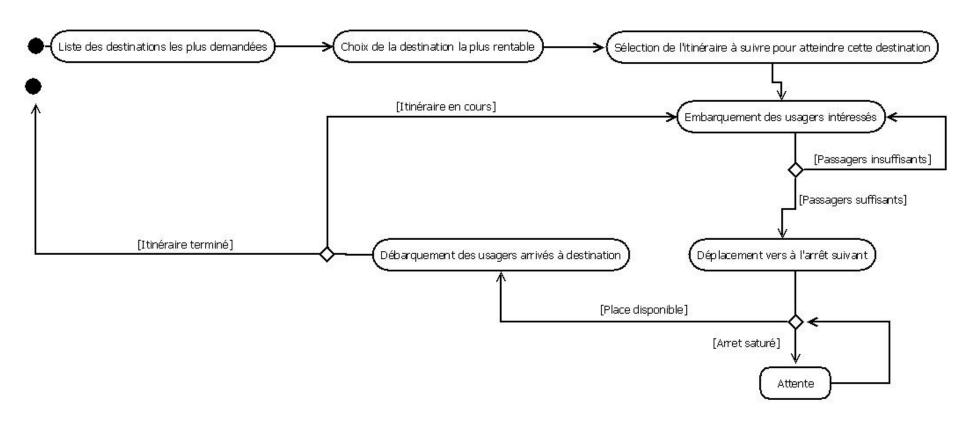
Routes possibles

Agents





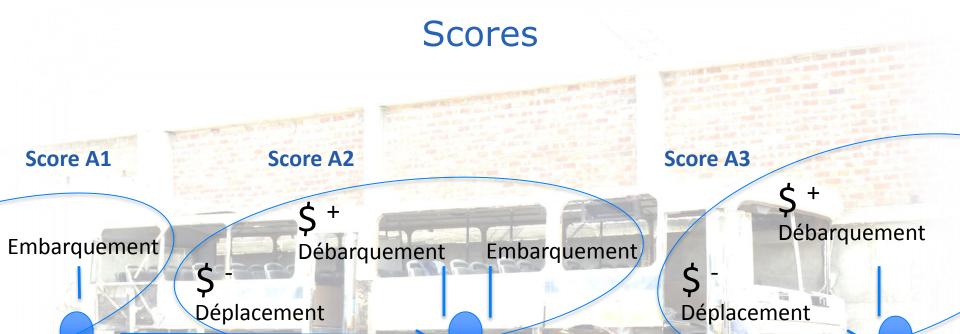
Stratégies



A1







A2

Vidéo







Hypothèse





Le nombre de bus par arrêt au départ à une influence sur les structures et les dynamiques spatiales du système

Modèle

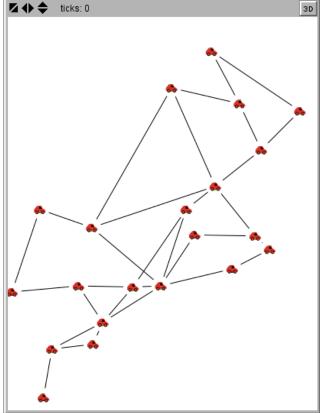


BUS / USAGERS

Sorties

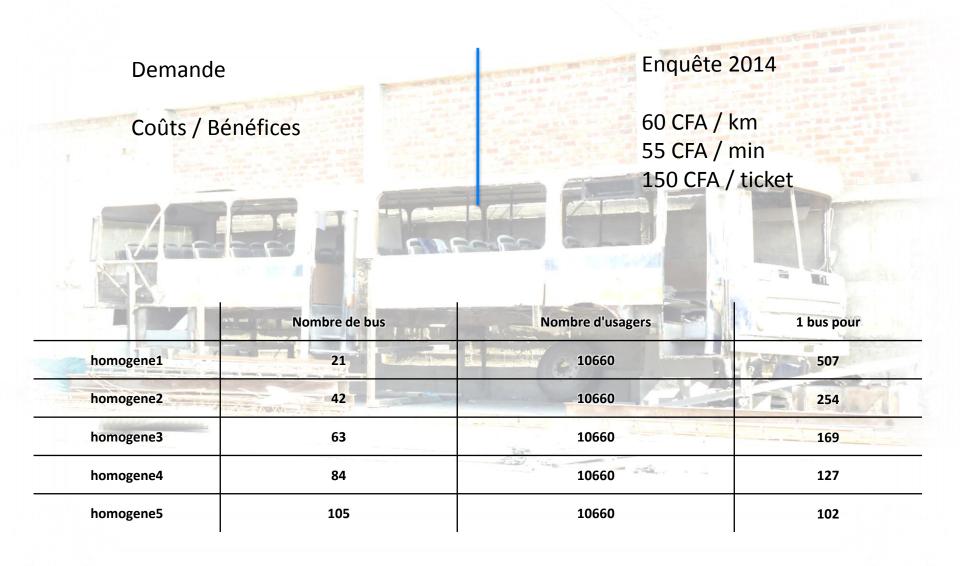
Temps d'attente des usagers Nombre d'usagers desservis Structure spatiale de la desserte





Variations du Nb de Bus



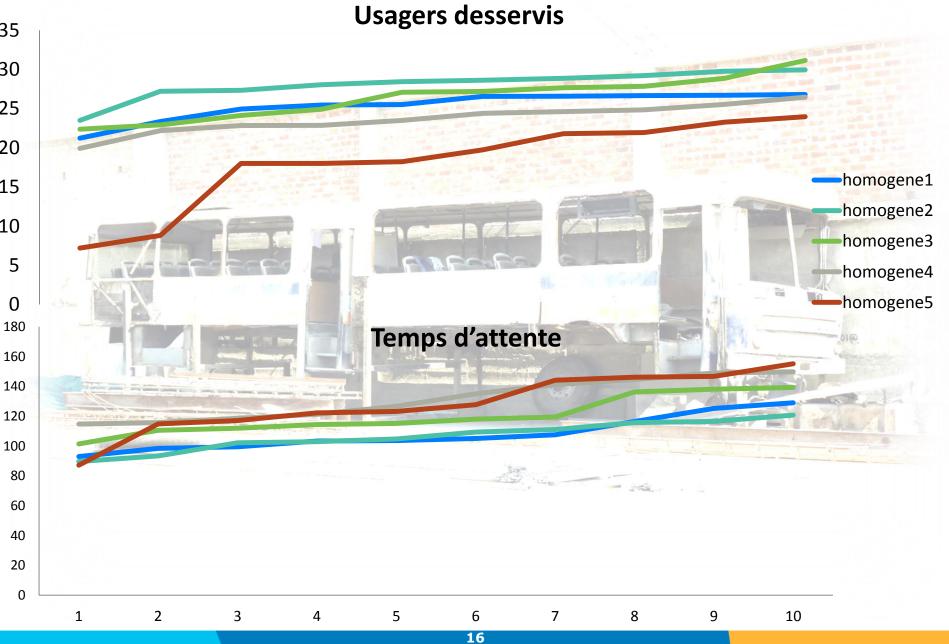


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Variations du Nb de Bus





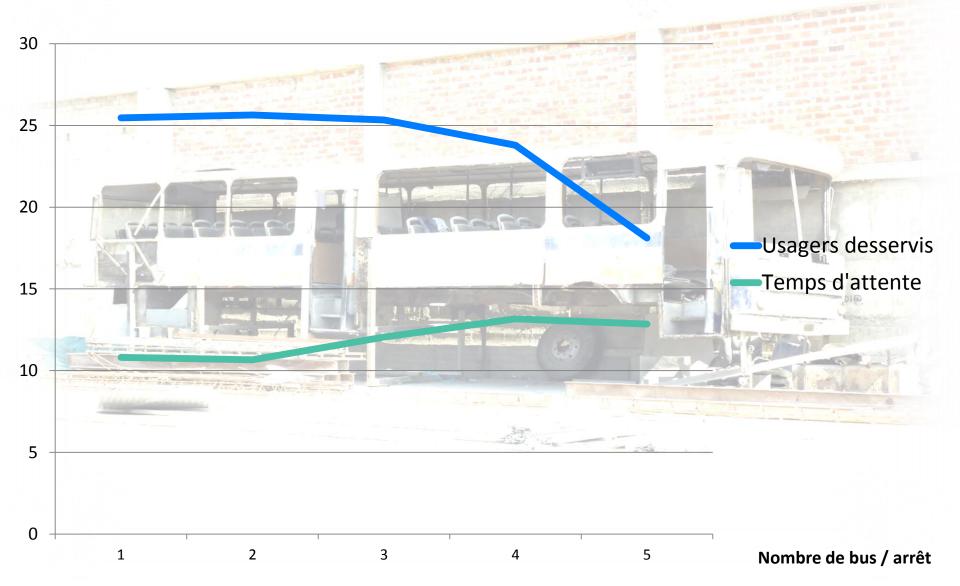


Variations du Nb de Bus





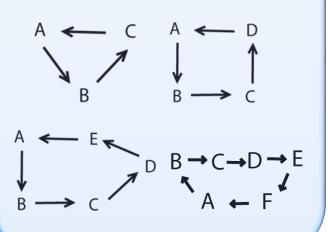
Evolutions en fonction du nombre de bus au départ



Structures spatiales



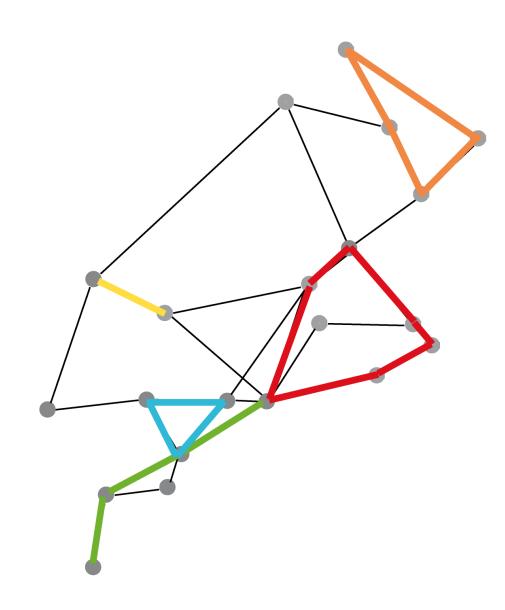




Navettes

$$A \hookrightarrow B \hookrightarrow C \hookrightarrow D$$

$$A \hookrightarrow B \hookrightarrow C \hookrightarrow D \hookrightarrow E \hookrightarrow F$$

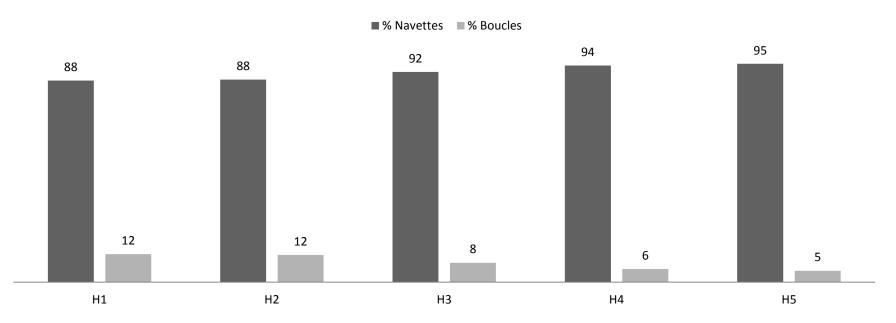


Structures spatiales





Structures observées

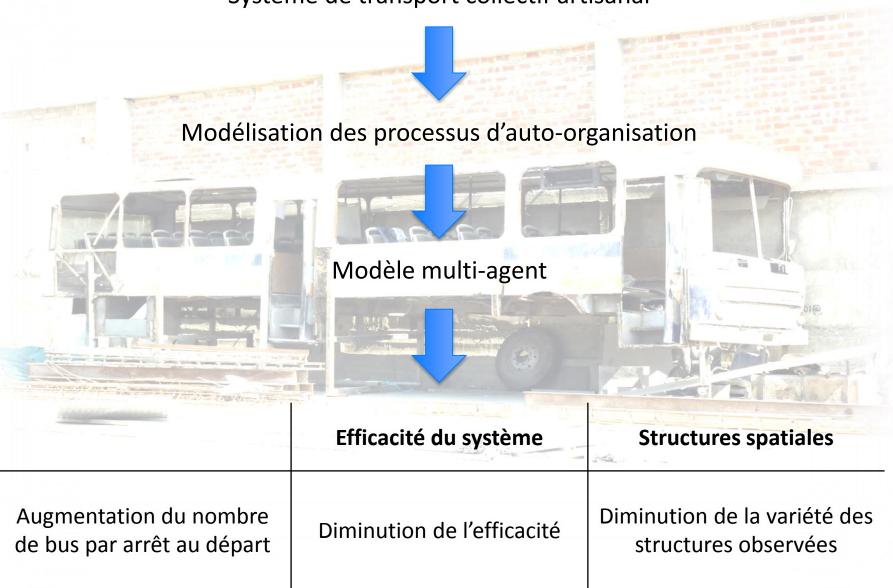


Conclusion















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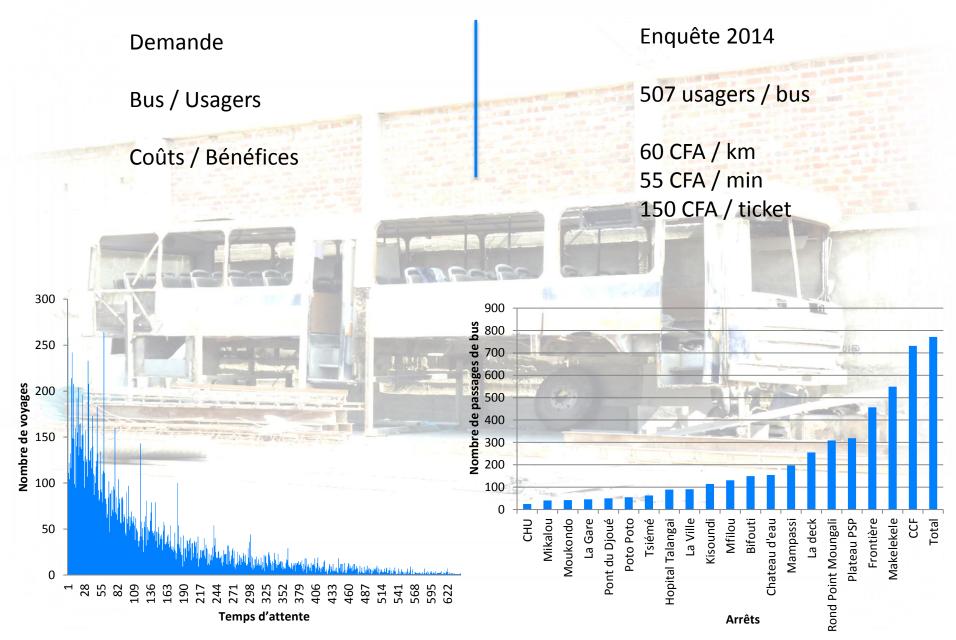
Doctorante en Géographie UMR ESPACE – Aix en Provence

lea.wester@laspote.net

Cohérence externe



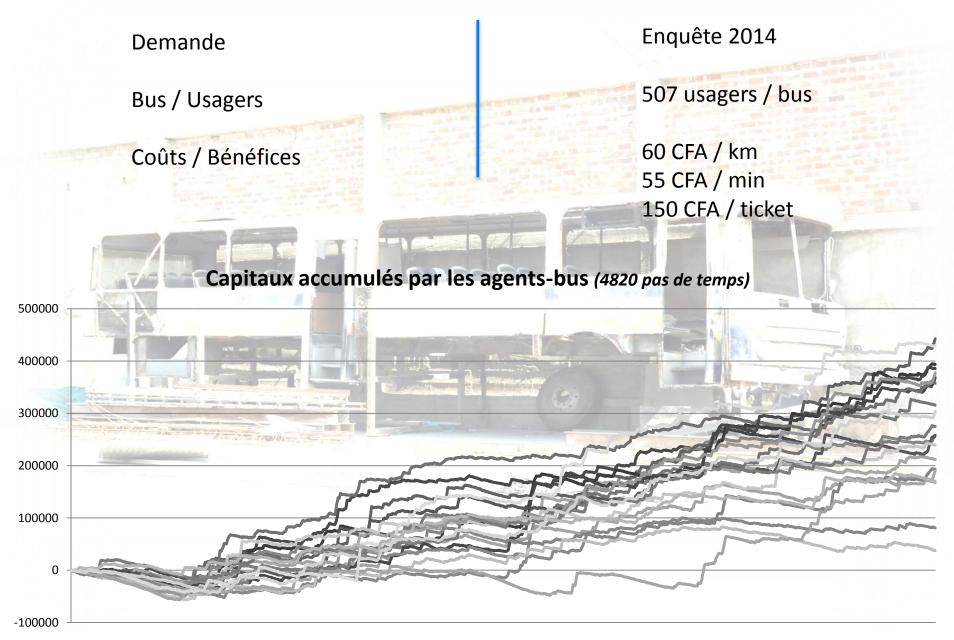




Cohéren ce interne













Léa Wester

Doctorante en Géographie UMR ESPACE – Aix en Provence

lea.wester@laspote.net