



Sustainable Cities
Conference, New
Delhi 09/05/2016

SYSTEMES EMBARQUES AEROSPATIAUX

Presents

CarLina

Cheap and potent, sustainable city mobility system



A sustainable mobility action

- **Introducing S.E.A.**
- **Sustainable mobility solution**
- **CarLina characteristics (extended PRT)**
 1. Services
 2. Cost
- **Local consortium model**
 1. Civil engineering
 2. Car makers
 3. Certification
 4. Toll/booking

1_Introducing SEA



Complexity



Reliability



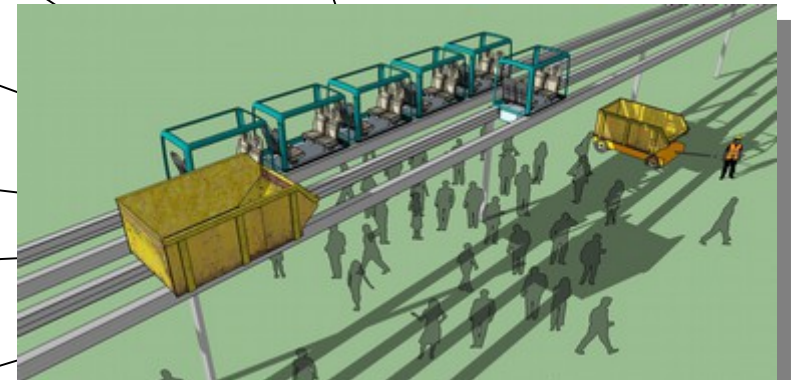
Circuit untangling



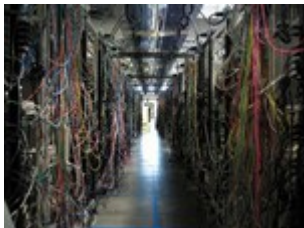
Safety



Traffic nightmare



Systems complexity reduced to the essential



Complex wiring

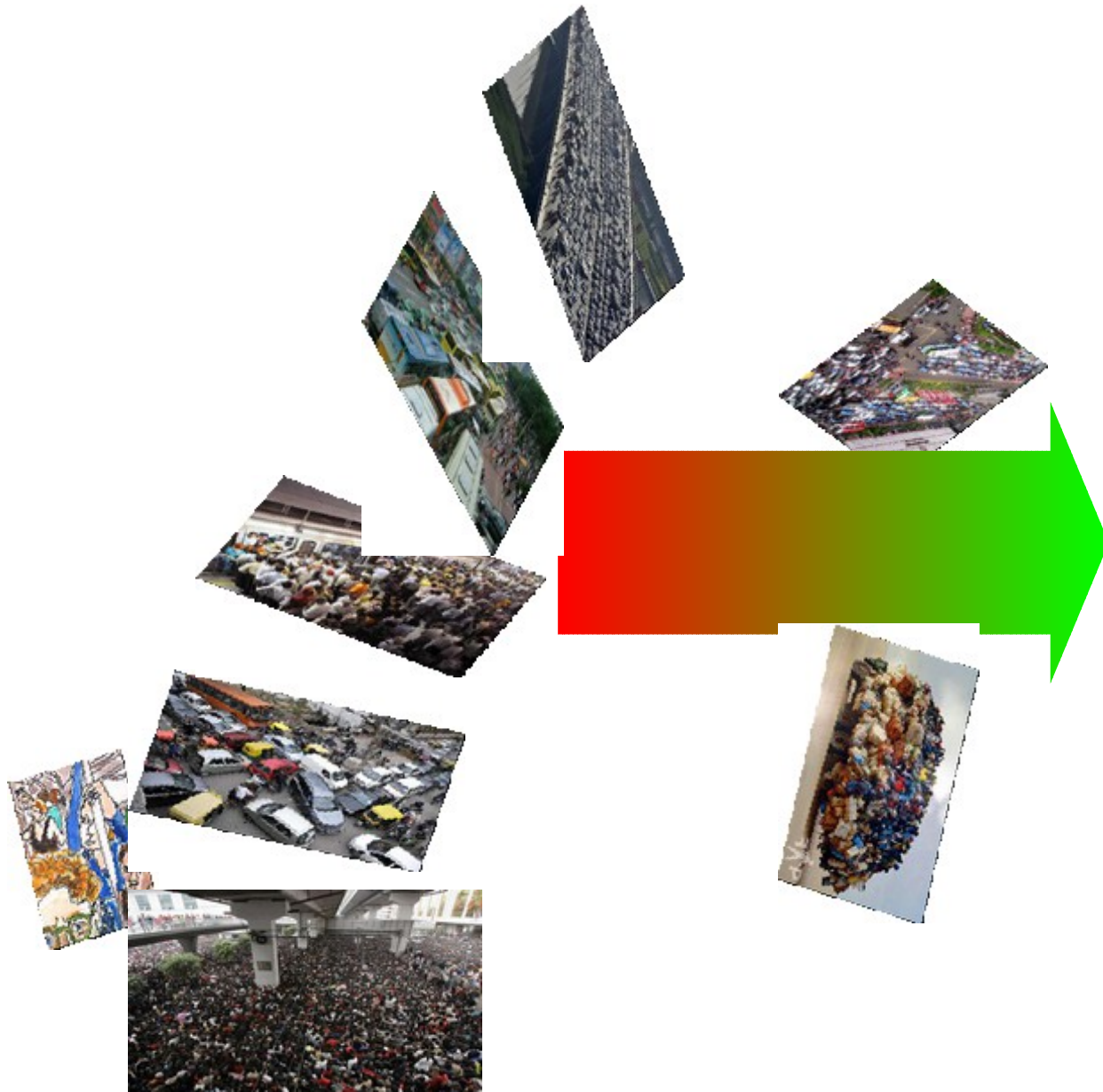


Agility



City Untangling

2_Sustainable mobility solution



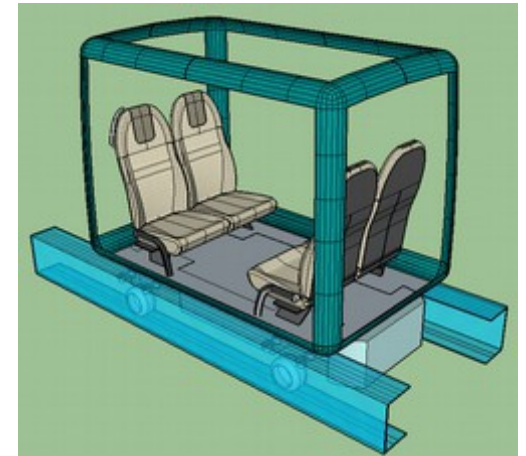
1_"Air segment"
Automatic passengers + freight



2_"Ground segment"
Last 250m

- Large throughput

	V4	V6
Basic (50%)	36k/h	54k/h
AIDA optimized (75%)	54k/h	80k/h



- Typical latency 1mn, 36 to 60km/h
- 24/7 operation, deterministic
- Car-like comfort level
- Scheduled traffic, taxi-mode marginal
- Automatic parcels/freight delivery



3.2_CarLina cost

- **Cheap, durable trackways**
Circa 1M€/km
Recyclable
Low maintenance
- **Very low energy consumption**
- **Meshed network capacity**
+ no control center required
- **Minimal Stations**
≈ one lift and staircases
- **Simple, open-specification pods**
Automotive levels



4_Local consortium model

● **Open standard model**

**Specification & Certification based
Interface-compliant suppliers**

● **Infrastructure**

**Soldered/curved standard steel beams
Supporting piles
Small stations**

● **Pods**

**Autonomous platform
Passenger cabin / freight bins etc.**

● **Operation**

**Ticketing, background configuration
Security**

● **Certification**



5_Consortium application

- **Local authorities**

Signal your project to alex.meijia@unitar.com

- **Supplier**

- **Operator**

- **Certifier**

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