

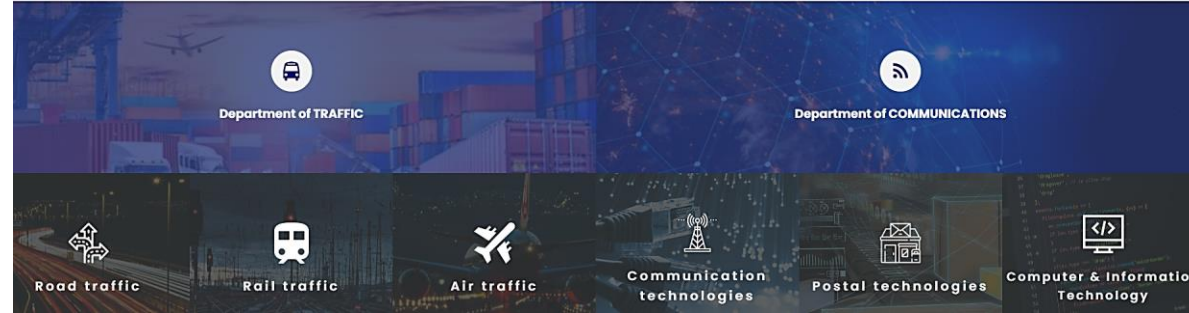


University of Sarajevo: <https://www.unsa.ba>  
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E Logistic

E Logistika

# Concept of City Logistics / Koncept gradske logistike

- • Definicija: Upravljanje i optimizacija procesa dostave robe u urbanim sredinama.
- • Cilj: Smanjenje negativnih uticaja transporta – zagađenje, buka, gužve.
- • Uključeni akteri: Javna uprava, logističke kompanije, trgovine, građani.
- • Izazovi: Fragmentacija isporuka, stara infrastruktura, ograničenja pristupa.

- • Definition: Management and optimization of the process of delivery of goods in urban areas.
- • Goal: Reducing the negative impacts of transport – pollution, noise, congestion.
- • Actors involved: Public administration, logistics companies, shops, citizens.
- • Challenges: Fragmentation of deliverables, old infrastructure, access restrictions.

The Future of  
City Logistics – A  
Smart System  
with Zero  
Emissions /  
Budućnost  
gradske logistike  
- pametni sistem  
sa nultom  
emisijom

- • Pametni gradovi: IoT, big data i senzori za upravljanje isporukama.
- • Zero-emission zone (ZEZ): Samo vozila bez emisije.
- • Autonomna vozila: Efikasnije i sigurnije isporuke.
- • Digitalna platforma: Koordinacija u realnom vremenu.

- • Smart cities: IoT, big data, and sensors for delivery management.
- • Zero-emission zone (ZEZ): Zero-emission vehicles only.
- • Self-driving cars: More efficient and safer deliveries.
- • Digital platform: Real-time coordination.

# E-commerce / E-trgovina

- • Rast e-trgovine: Više online porudžbina, više isporuka.
  - • Logistički pritisak: Više pojedinačnih isporuka u gradu.
  - • Rješenja: Mikro-hubovi, locker sistemi, konsolidacija.
  - • Promjena geografije isporuka.
- • E-commerce growth: More online orders, more deliveries.
  - • Logistical pressure: More individual deliveries in the city.
  - • Solutions: Micro-hubs, locker systems, consolidation.
  - • Change the geography of deliveries.

City Logistics and Freight  
Transport / Gradska  
logistika i teretni transport

- • Veza: Gradska logistika dio šireg sistema transporta robe.
- • Specifičnosti: Kraće relacije, više zaustavljanja.
- • Optimizacija ruta: Softver za efikasnije isporuke.
- • Upravljanje zalihama: JIT povećava broj isporuka.
  
- • Connection: City logistics is part of a wider system of transport of goods.
- • Specifics: Shorter routes, more stops.
- • Route optimization: Software for more efficient deliveries.
- • Inventory management: JIT increases the number of deliveries.

# Electric Vehicles / Električna vozila

- • Prednosti: Nema CO<sub>2</sub> emisije, tiši rad, niži troškovi.
- • Vrste EV: Putnička, komercijalna vozila, bicikli.
- • Podsticaji: Subvencije, porezne olakšice, parking.
- • Ograničenja: Cena, domet, infrastruktura.

- • Advantages: No CO<sub>2</sub> emissions, quieter operation, lower costs.
- • Types of EVs: Passenger, Commercial Vehicles, Bicycles.
- • Incentives: Subsidies, tax breaks, parking.
- • Limitations: Price, range, infrastructure.

# Electric Trucks / Električni kamioni

- • Primjena: Urban logistics, "last km" isporuke.
- • Prednosti: Nema emisija, pogodni za noćne isporuke.
- • Proizvođači: Volvo, Mercedes, Tesla, Renault.
- • Izazovi: Težina baterije, domet, cijena.

- • Application: Urban logistics, "last km" deliveries.
- • Advantages: No emissions, suitable for overnight deliveries.
- • Manufacturers: Volvo, Mercedes, Tesla, Renault.
- • Challenges: Battery weight, range, price.

Development of Infrastructure for Charging Electric  
Vehicles /  
Razvoj infrastrukture za punjenje električnih vozila

- • Vrste punionica: Brze (DC), spore (AC), kućne i javne.
  - • Pokrivenost: Stambene zone, poslovni centri, logističke baze.
  - • Pametno punjenje: Integracija sa smart grid mrežama.
  - • Politike: Javna ulaganja, PPP modeli.
- 
- • Charging station types: Fast (DC), slow (AC), domestic and public.
  - • Coverage: Residential zones, business centers, logistics bases.
  - • Smart Charging: Integration with smart grid networks.
  - • Policies: Public investments, PPP models.

## Sustainable Urban Distribution / Održiva urbana distribucija

- • Ciljevi: Efikasnost, smanjenje CO<sub>2</sub>, bolji život u gradu.
- • Strategije: Konsolidacija, EV, kargo bicikli.
- • Uloga vlasti: Regulacija, urbana planiranja, podsticaji.
- • Integracija održivih principa u logistiku.

- • Goals: Efficiency, CO<sub>2</sub> reduction, better life in the city.
- • Strategies: Consolidation, EV, cargo bikes.
- • Role of government: regulation, urban planning, incentives.
- • Integration of sustainable principles into logistics.

# Zaključak/ Conclusion

- • Tehnologija i održivost ključne za budućnost logistike.
- • Saradnja javnog i privatnog sektora je neophodna.
- • Pametna i zelena logistika poboljšava gradski život.

- • Technology and sustainability key to the future of logistics.
- • Cooperation between the public and private sectors is essential.
- • Smart and green logistics improves city life.



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Thank you for your attention

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