### UKRAINE ROAD SECTOR INVESTMENT PRIORITIZATION DRAFT RESULTS (OCTOBER 2017)







## Identification of short and medium to long-term priorities for the road sector



#### **Road Sector Development Strategy**

### **Project Stages**

<ul> <li>Data collection</li> <li>Road network database</li> <li>GIS analysis</li> <li>HDM-4 analysis for ST priorities</li> <li>Include budget constraints</li> <li>Check traffic data with ongoing traffic counts</li> <li>Include financing framework</li> </ul>	Oct 2017	2017
<ul> <li>Analysis of international trade flows and national mobility</li> <li>Assessment of medium to long-term priorities</li> <li>Summary of short and long term priorities by key link</li> <li>Project ficks for medium to long term priorities</li> </ul>		Nov



### **Road Network**



#### Ukrainian Road Network, km



#### Network traffic levels and condition, 2016

#### Road Network Condition





### **Short-Term Priorities**



#### Results of HDM4 analysis: unconstrained scenario





### Identification of Focus Network according to budget constrains

#### International corridors

#### Overlapping with:

- TEN-T
- UAD international corridors
- European routes (E40, 50, 85)
- CMU resolutionMol priorities

- Go highway

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#### National connectivity links

#### **Big Data Analysis:**

Cooperation with Ukrainian largest mobile operator to identify main movement attraction and production zones



Network of Priority International & National Connectivity Links

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### Priority ranking by economic criteria into 3 levels



Total Cost 2<sup>nd</sup> level= 540 mi US\$ Total Cost 3<sup>rd</sup> level= 780 mi US\$





### **Medium to long-term priorities**



### Transport model for road network





### Transport model to test scenarios

VOT\_CAR





### Potential capacity improvement projects by 2030



### **Projects tested**



# Some model outputs (preliminary EIRR for selected projects)



### Key conclusions and recommendations

Short term current and capital repairs sum up to 5.4 bi USD during 2018-2020



Out of this, 1.8 bi USD to the main national and international corridors should be the key priorities



Many potentially good projects for capacity improvement - need for project preparation as soon as possible to enable investments



New projects should incorporate mechanisms to avoid rapid deterioration (maintenance contracts, weight control,..)



Thank you!

