




INNOVÁCIÓS ÉS TECHNOLÓGIAI
MINISZTERIUM

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C-ITS DEVELOPMENTS IN HUNGARY

C-ITS pilot

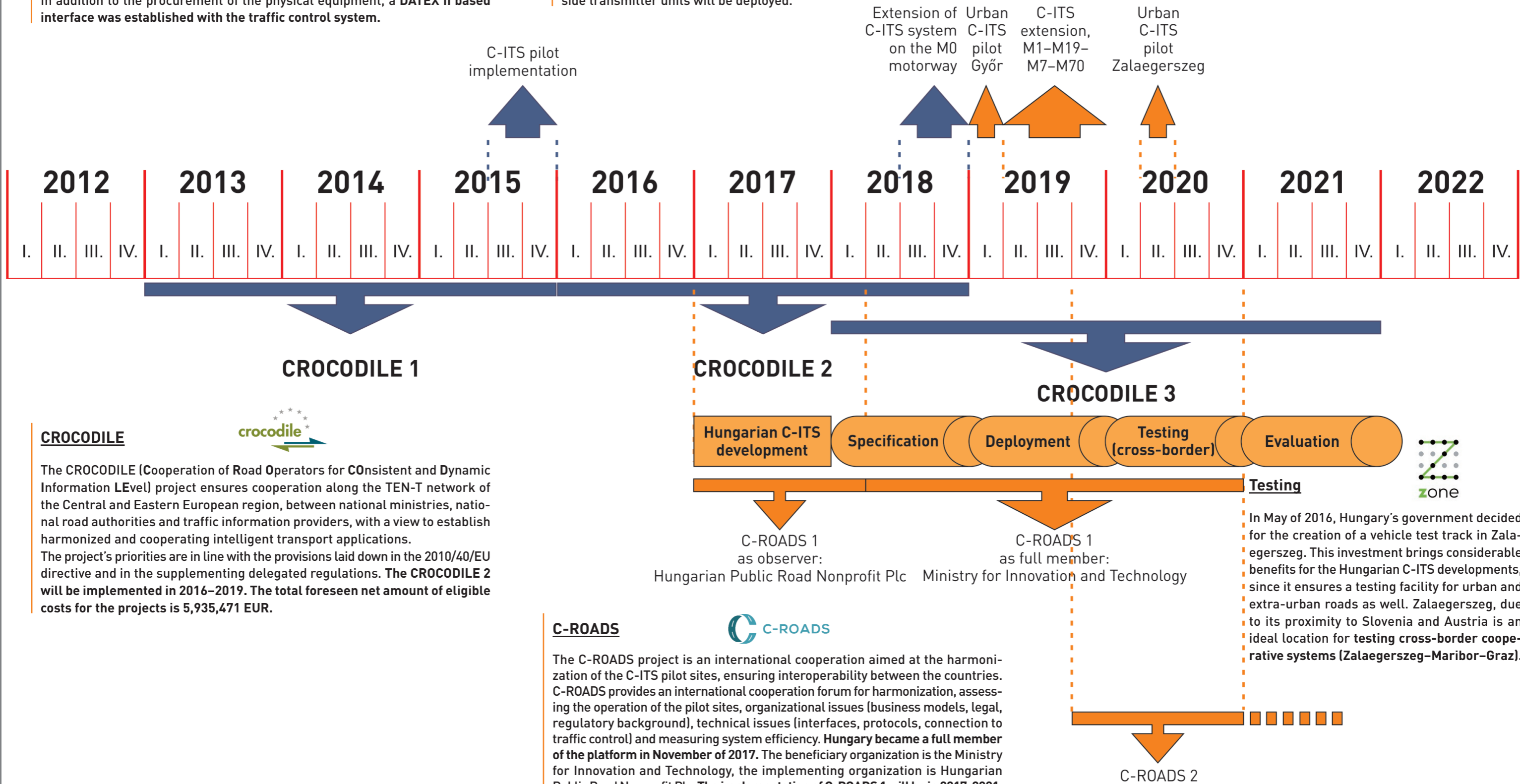
Hungarian Public Road Nonprofit PLC, in the framework of a pilot project, fixedly deployed 27 roadside (R-ITS-S) units on VMS portals and emergency columns located at 14 sites on a 136 km long section of the M1 motorway. In addition to that, the company deployed 20 roadside mobile units on road control and roadworks vehicles and VMS trailers. The system is running with the ETSI G5 communication protocol, it covers the "Day-1 services" and is in accordance with the ECO-AT (Austrian part of C-ITS-Corridor) specification. In addition to the procurement of the physical equipment, a DATEX II based interface was established with the traffic control system.

C-ITS enlargement

The machinery park was upgraded on the M1 motorway (Orient-East Med corridor), on the M7 motorway (Mediterranean corridor) and on the M70 motorway. On the M1 motorway, the existing pilot system will be extended on the Győr bypass (between the markers of 105–130 km) and with the involvement of the M19 motorway. Regarding the M7 and M70 motorways, the common section of the M1-M7 motorways and the test track area of Zalaegerszeg will be of special importance. Along the above mentioned roads, at least 70 C-ITS roadside transmitter units will be deployed.

Urban C-ITS

The C-ROADS project also offers the opportunity to deploy city C-ITS applications. Such developments are currently being carried out in two towns, namely in Győr (C-ROADS 1) and in Zalaegerszeg (C-ROADS 2). City pilot projects mainly involve infrastructure controlled by traffic signal lanterns. GLOSA (Green Light Optimal Speed Advisory/Time To Green) and other applications improving junction security (Signal Violation/Intersection Safety) are among the solutions to be applied.



CROCODILE



The CROCODILE (Cooperation of Road Operators for COnsistent and Dynamic Information LLevel) project ensures cooperation along the TEN-T network of the Central and Eastern European region, between national ministries, national road authorities and traffic information providers, with a view to establish harmonized and cooperating intelligent transport applications. The project's priorities are in line with the provisions laid down in the 2010/40/EU directive and in the supplementing delegated regulations. **The CROCODILE 2 will be implemented in 2016–2019. The total foreseen net amount of eligible costs for the projects is 5,935,471 EUR.**

C-ROADS



The C-ROADS project is an international cooperation aimed at the harmonization of the C-ITS pilot sites, ensuring interoperability between the countries. C-ROADS provides an international cooperation forum for harmonization, assessing the operation of the pilot sites, organizational issues (business models, legal, regulatory background), technical issues (interfaces, protocols, connection to traffic control) and measuring system efficiency. **Hungary became a full member of the platform in November of 2017.** The beneficiary organization is the Ministry for Innovation and Technology, the implementing organization is Hungarian Public Road Nonprofit Plc. **The implementation of C-ROADS 1 will be in 2017–2021, the foreseen total eligible net amount is 19,954,31 EUR.**

In May of 2016, Hungary's government decided for the creation of a vehicle test track in Zalaegerszeg. This investment brings considerable benefits for the Hungarian C-ITS developments, since it ensures a testing facility for urban and extra-urban roads as well. Zalaegerszeg, due to its proximity to Slovenia and Austria is an ideal location for testing cross-border cooperative systems (Zalaegerszeg–Maribor–Graz).