5G-TRANSFORMER: 5G Mobile Transport Platform for Verticals

Von 2017-06-01 bis 2019-11-30, Laufendes Projekt | 5G-TRANSFORMER Website

Projektdetails

<table>
<thead>
<tr>
<th>Gesamtkosten:</th>
<th>Thema(en):</th>
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<tr>
<td>EUR 8 510 582,50</td>
<td>ICT-07-2017 - 5G PPP Research and Validation of critical technologies and systems</td>
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<td>EU-Beitrag:</td>
<td>Aufruf zur Vorschlagseinstreichung:</td>
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<td>EUR 7 985 582,50</td>
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<td>Koordiniert in:</td>
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<td>Spain</td>
<td>RIA - Research and Innovation action</td>
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Ziel

The vision of the 5G-TRANSFORMER project is that Mobile Transport Networks shall transform from today’s rigid interconnection solutions into an SDN/NFV-based 5G Mobile Transport and Computing Platform (MTP) able of simultaneously supporting an extremely diverse range of networking and computing requirements to meet in particular the specific needs of vertical industries. A new networking paradigm known as Network Slicing has emerged for 5G as the most promising approach to address this challenge by enabling per slice management of virtualized resources. 5G-TRANSFORMER aims to bring the “Network Slicing” paradigm into mobile transport networks by provisioning and managing MTP slices tailored to the needs of vertical industries. Specifically: automotive, healthcare and media. The technical approach is twofold: (1) Enable Vertical Industries to meet their service requirements within customised MTP slices; and (2) Aggregate and Federate transport networking and computing fabric, from the edge up to the core and cloud, to create and manage MTP slices throughout a federated virtualized infrastructure. The proposed solution defines three novel building blocks that will be developed and demonstrated integrating the aforementioned three vertical industries:

(1) Vertical Slicer as the logical entry point (i.e., one stop shop) for verticals to support the creation of their respective transport slices in a short time-scale (in the order of minutes).
(2) Service Orchestrator to orchestrate the federation of transport networking and computing resources from multiple domains and manage their allocation to slices.
(3) Mobile Transport and Computing Platform as the underlying unified transport stratum for integrated fronthaul and backhaul networks.

The 5G-TRANSFORMER project addresses “ICT 07-2017: 5G PPP Research and Validation of critical technologies and systems” with a special focus on the TA11: Converged 5G FlexHaul Network objectives of the pre-structuring model.

Verwandte Informationen

Berichts zusammenfassungen Periodic Reporting for period 1 - 5G-TRANSFORMER (5G-TRANSFORMER: 5G Mobile Transport Platform for Verticals)
**Koordinator**

UNIVERSIDAD CARLOS III DE MADRID  
CALLE MADRID 126  
28903 GETAFE (MADRID)  
Spain  
EU-Beitrag: EUR 898 562,50

**Activity type:** Higher or Secondary Education Establishments  
Contact the organisation

---

**Teilnehmer**

NEC EUROPE LTD  
WEST END ROAD ATHENE ODYSSEY BUSINESS PARK SOUTH RUISLIP  
HA4 6QE LONDON  
United Kingdom  
EU-Beitrag: EUR 0

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  
Contact the organisation

---

ERICSSON TELECOMUNICAZIONI SPA  
VIA ANAGNINA 203  
00118 ROMA  
Italy  
EU-Beitrag: EUR 457 750

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  
Contact the organisation

---

ATOS SPAIN SA  
CALLE DE ALBARRACIN 25  
28037 MADRID  
Spain  
EU-Beitrag: EUR 548 125

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  
Contact the organisation

---

NOKIA SOLUTIONS AND NETWORKS GMBH &CO KG  
WERINHERSTRASSE 91  
81541 MUNCHEN  
Germany  
EU-Beitrag: EUR 408 227,50

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  
Contact the organisation
INTERDIGITAL EUROPE LTD
64 GREAT EASTERN STREET SECOND FLOOR
EC2A 3QR LONDON
United Kingdom
See on map

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

TELEFONICA INVESTIGACION Y DESARROLLO SA
RONDÁ DE LA COMUNICACIÓN S/N DISTRITO C EDIFICIO OESTE I
28050 MADRID
Spain
See on map

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

ORANGE SA
RUE OLIVIER DE SERRES 78
75015 PARIS
France
See on map

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

CENTRO RICERCHE FIAT SCPA
STRADA TORINO 50
10043 ORBASSANO
Italy
See on map

**Activity type:** Research Organisations

Contact the organisation

AYUNTAMIENTO DE MADRID
PLAZA DE LA VILLA 4
28005 MADRID
Spain
See on map

**Activity type:** Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Contact the organisation
B-COM
ZAC DES CHAMPS BLANCS BAT. A 13 RUE CLAUDE CHAPPE
35510 CESSON SEVIGNE
France
See on map

**Activity type:** Research Organisations

Contact the organisation

NEXTWORKS
VIA LIVORNESE 1027
56122 PISA
Italy
See on map

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

MIRANTIS POLAND SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA
UL. SZYPERSKA 14/B6
61 754 POZNAŃ
Poland
See on map

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

CENTRE TECNOLOGIC DE TELECOMUNICACIONS DE CATALUNYA
AVINGUDA CARL FRIEDRICH GAUSS 7 PARC MEDITERRANI DE TECNOLOGIA
08860 CASTELLDEFELS BARCELONA
Spain
See on map

**Activity type:** Research Organisations

Contact the organisation

POLITECNICO DI TORINO
CORSO DUCA DEGLI ABRUZZI 24
10129 TORINO
Italy
See on map

**Activity type:** Higher or Secondary Education Establishments

Contact the organisation
EURECOM
ROUTE DES CHAPPES 450 CAMPUS SOPHIATECH
06410 BIOT
France
See on map

Activity type: Higher or Secondary Education Establishments
Contact the organisation

SCUOLA SUPERIORE DI STUDI UNIVERSITARI E DI PERFEZIONAMENTO S ANNA
PIAZZA MARTIRI DELLA LIBERTA 33
56127 PISA
Italy
See on map

Activity type: Higher or Secondary Education Establishments
Contact the organisation

INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE INCORPORATED
CHUNGHSING ROAD 195 SECTION 4
310 CHUTUNG
Taiwan
See on map

Activity type: Research Organisations
Contact the organisation

NEC LABORATORIES EUROPE GMBH
KURFURSTEN-ANLAGE 36
69115 HEIDELBERG
Germany
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

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