

MATILDA: A HOLISTIC, INNOVATIVE FRAMEWORK FOR THE DESIGN, DEVELOPMENT AND ORCHESTRATION OF 5G-READY APPLICATIONS AND NETWORK SERVICES OVER SLICED PROGRAMMABLE INFRASTRUCTURE

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Challenges towards enhancing 5G with intelligent orchestration platforms



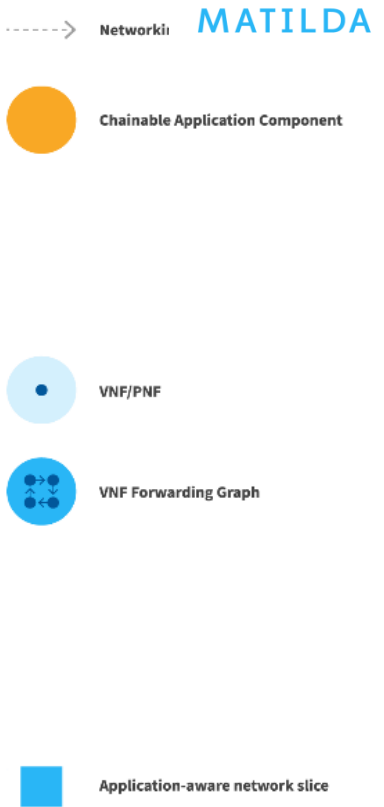
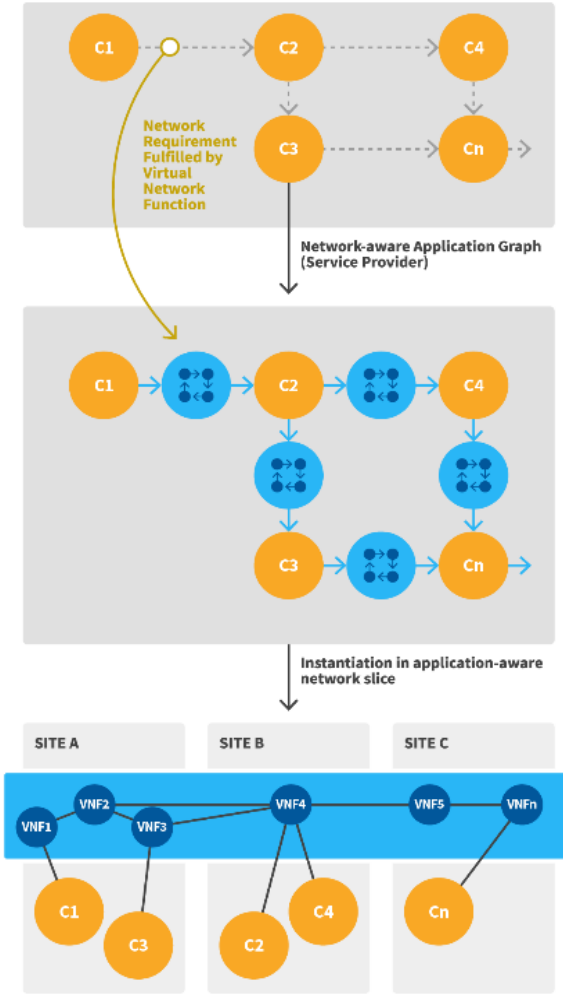
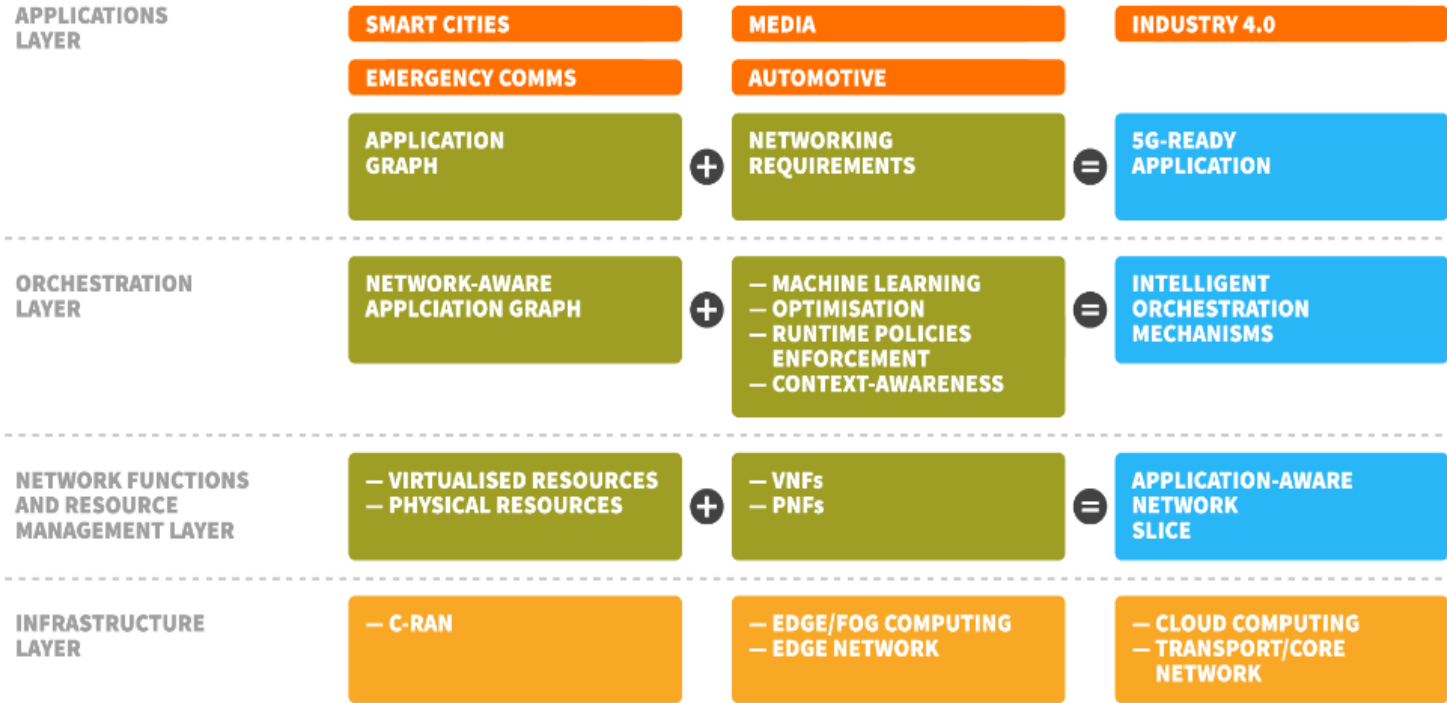
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- Define appropriate **abstractions for the design of 5G-ready applications**;
- Develop an **agile programming and verification platform** for developing and verifying **industry vertical 5G-ready applications and network services**;
- Support mechanisms for **automated or semi-automated translation of application-specific requirements to programmable infrastructure requirements**;
- Support **intelligent orchestration mechanisms** for managing the entire lifecycle of 5G-ready applications and network services;
- Support mechanisms for **multi-site network, compute and storage resource management**;
- Involve **key actors of the value chain** in the operational model.



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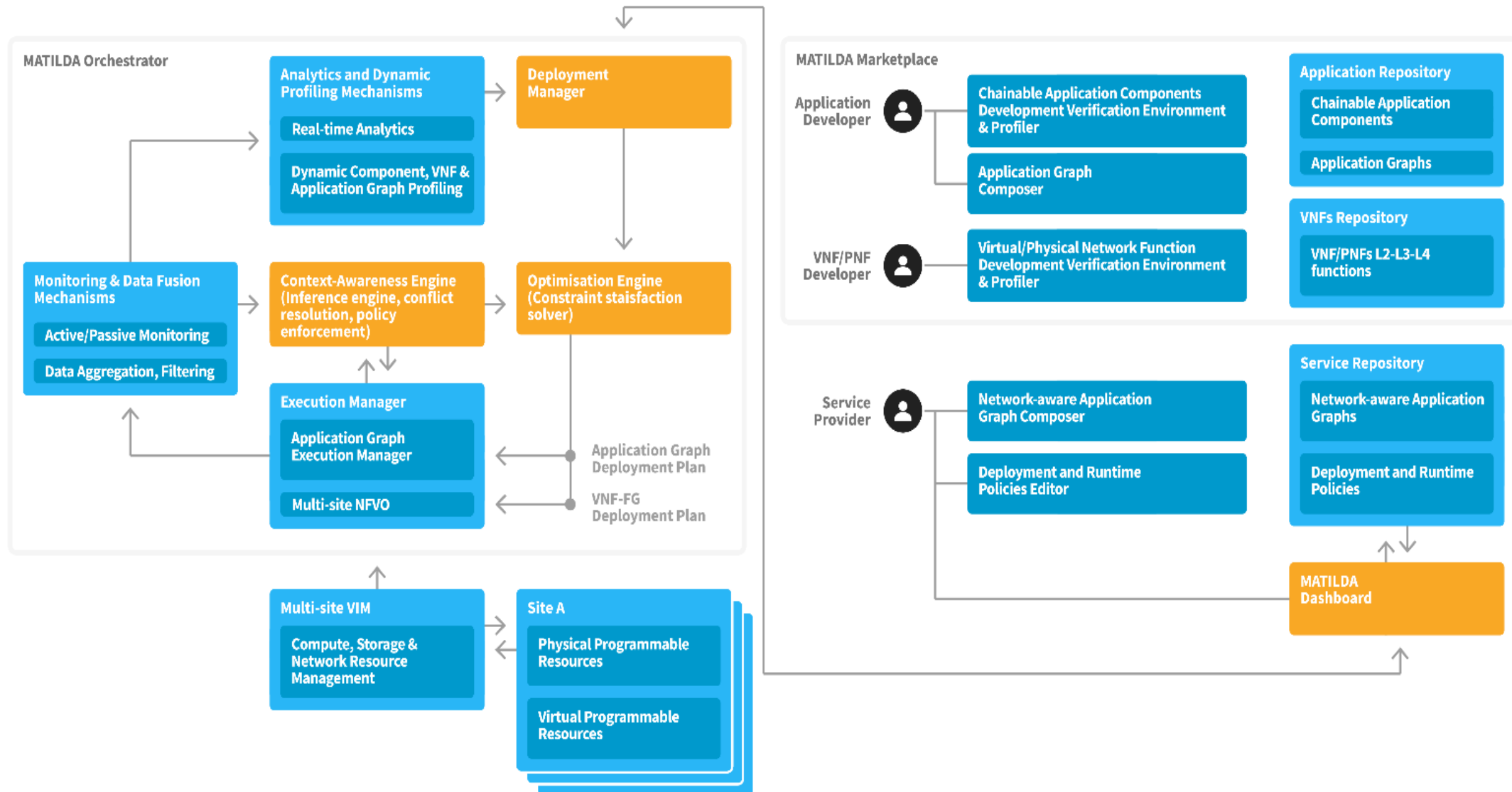
MATILDA 5G High Level Architectural Approach





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MATILDA Conceptual Architecture





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Interaction with peer projects and 5G working groups

- High contribution at:
 - Network Management and QoS WG
- Medium contribution at:
 - 5G Architecture WG
 - SDN/NFV WG
 - Vision and Societal Challenges WG
 - SME WG
 - Trials WG
- Strong collaboration with relevant 5G PPP projects, especially ICT8 related projects.
- Organization of 4th Workshop on Network Function Virtualization and Programmable Networks (NFVPN) in conjunction with the 3rd IEEE NFV-SDN conference 6-8 Nov., Berlin, Germany (<http://www.pasiphae.eu/nfvpn/>)



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MATILDA Consortium

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P2	ATOS Spain SA	ATOS	ES
P3	ERICSSON	ERICSSON	IT
P4	INTRASOFT INTERNATIONAL SA	INTRA	LU
P5	COSMOTE KINITES TILEPIKOINONIES A.E.	COSM	GR
P6	ORANGE Romania	ORO	RO
P7	EXXPERTSYSTEMS GMBH	EXXPERT	DE
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P10	Incelligent	INC	GR
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P12	NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS"	NCSR	GR
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