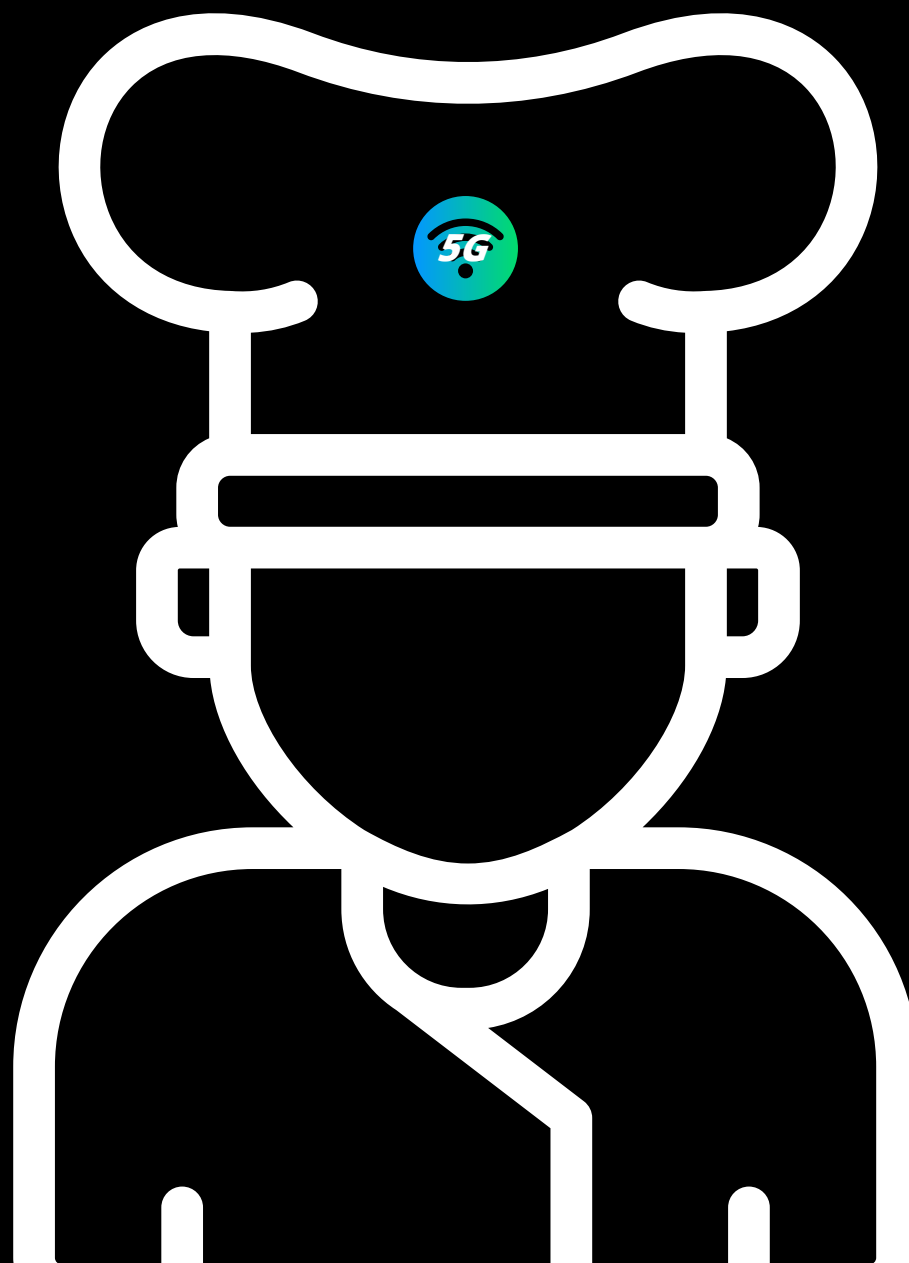


INSIGHT

5G SOLUTIONS AND SERVICES

A cookbook including your
individual 5G OpenRAN recipe



WHAT'S ON THE MENU?

5G is not only another cellular standard, but also the key to digital transformation of entire areas. It will have a positive impact on our lives as well as our work surroundings.



Use cases are manifold: IoT, private Campus Networks, smart infrastructure, critical control of remote devices – everywhere real time data is transferred rapidly, reliably and with low latency.

But 5G is not only about radio. EDGE Computing, NFV, SDN, Software Development and Network Slicing are key elements to enable the full usage of a 5G private network.

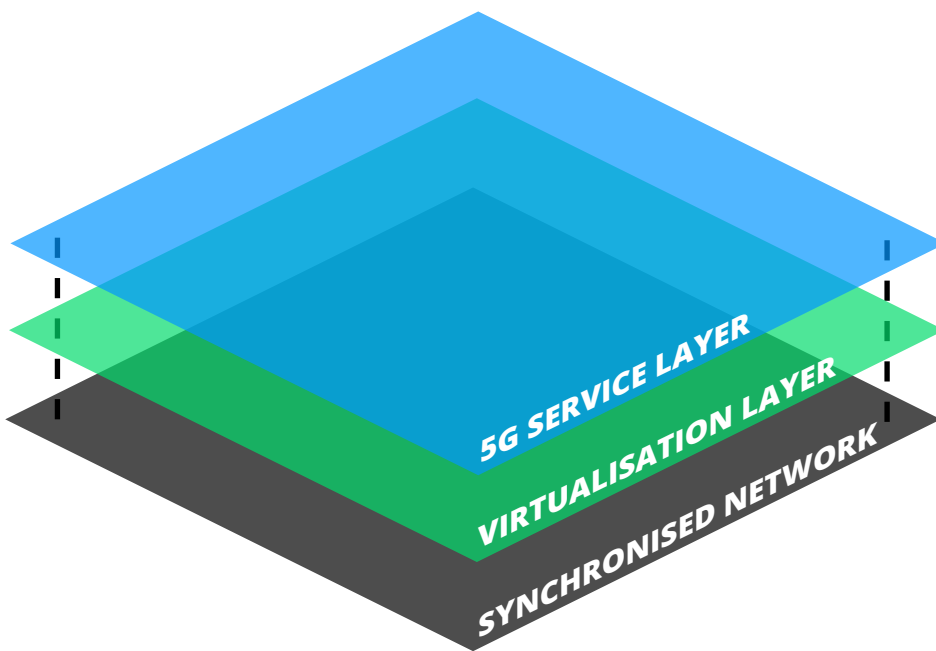
Sounds hard to digest?

We provide an understandable cookbook including an individual recipe for your 5G solution.

Imagine your solution as a menu with three courses [→](#)

5G IN THREE COURSES

Think of **three levels** – the courses of your menu - that belong together: The foundation is a synchronized network. Above the service platform: that's the virtualisation layer, home of the cloud stack. And on top of that the 5G service technologies.

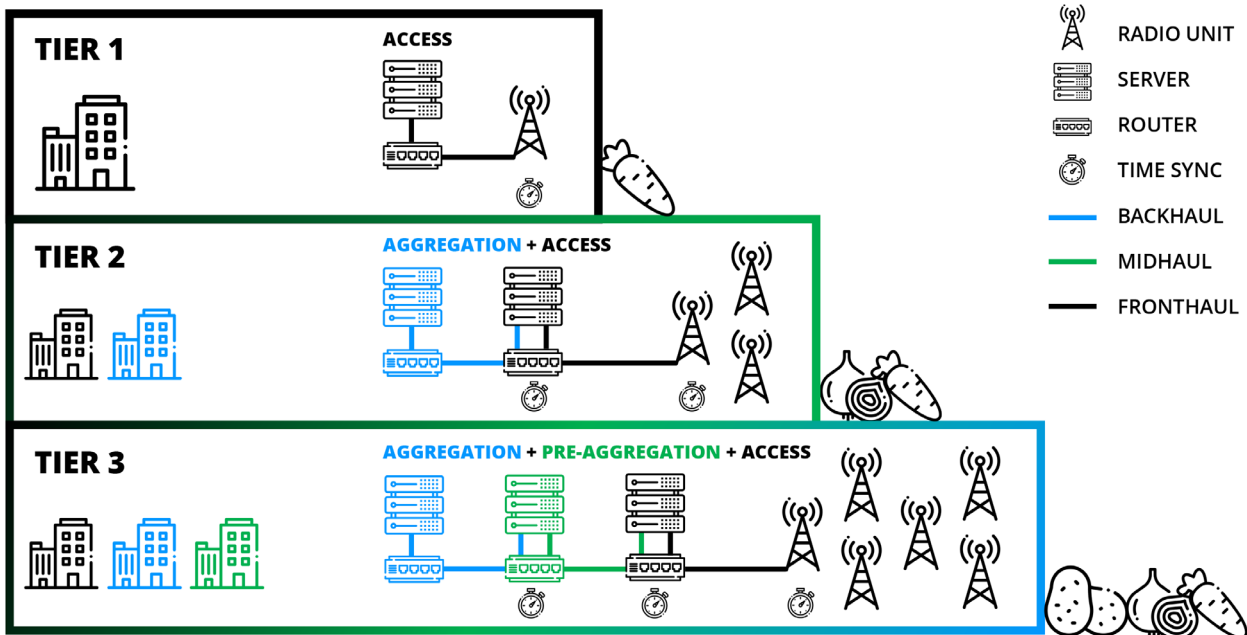


The 5G service layer (blue), the virtualisation layer (green) and the synchronised network (black).

Each layer has a variety of ingredients. We apply the very best from two worlds: Off the-shelf products and individually tailored components.

Let's have a look at the foundation first 

SYNCHRONISED TRANSPORT NETWORK



The bigger the network, the more aggregation is necessary

The complexity – the number of ingredients – you need to achieve a tasty synchronised network is determined by sheer size. Simply put, the more area you need to cover, the more radio units need to be deployed and the more server and routing power is necessary.

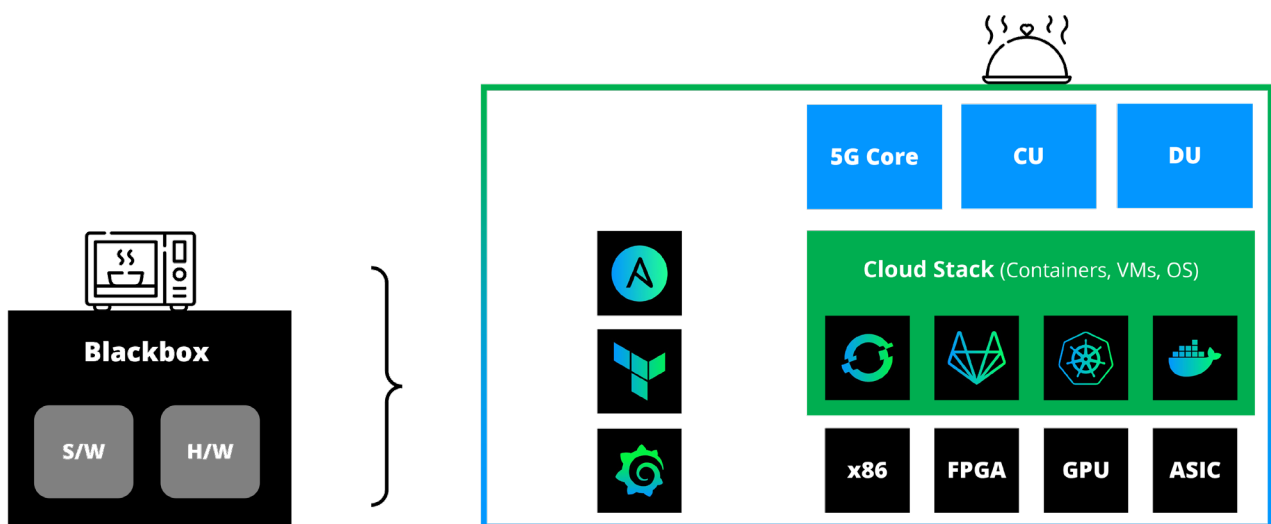
We **aggregate, synchronise and monitor** these resources flexible and efficiently. Think of it like a composition of carefully selected flavors.

By doing that, we already have the second layer in mind →

VIRTUALIZATION PLATFORM

Our internal virtualisation solution is based on open source products (Linux, Openstack, Kubernetes, Docker, Terraform, Ansible). **What is the advantage?**

Depending on your industry and application, flexibility might be key and thus requires a number of options a pure black-box solution simply cannot provide. Standard setups might have their advantages. However our experience and practice shows how often individual orchestration and management of every single component is in order. In this case a strict vendor-lock is not attractive. Picture it like the difference between a microwave-meal and star chef menu. The simple solution might suffice in the first place. But sometimes you need something more sophisticated – especially if your product is outstandingly innovative.

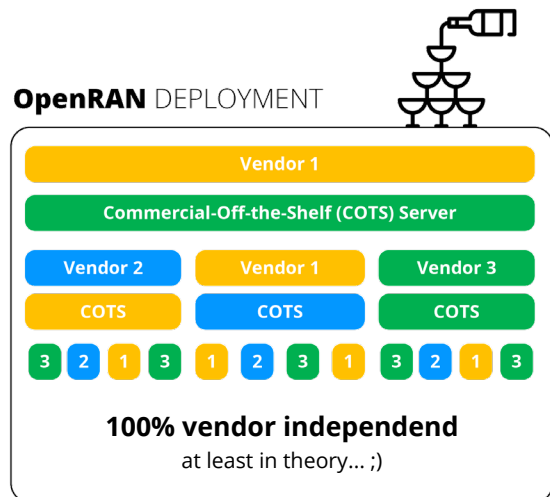


Ready meal versus individual composition: The cloud stack is open source and therefore transparent and adaptable

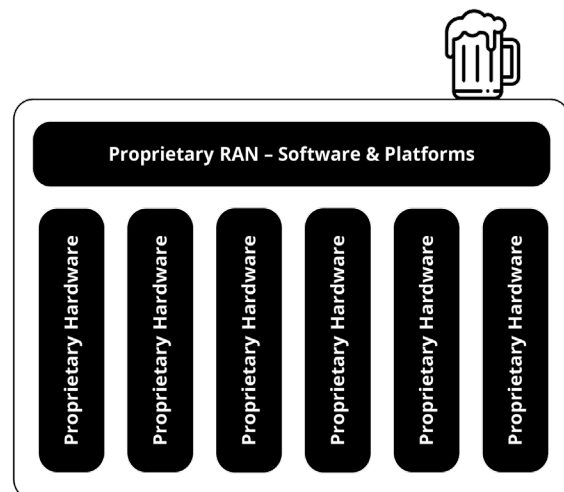
We follow a similar idea on the 5G Service level as well [→](#)

5G SERVICE TECHNOLOGIES

The last course in your menu is the one integral to your business: the 5G service layer. Like the virtualization platform, our solution for the 5G service layer is an open one (open RAN) with one huge advantage: **vendor independency**. What we call legacy deployment - with proprietary RAN Software and Platform - usually comes with a fixed set of hardware. What if your requirements are incompatible, or worse: what if your already deployed setup needs some critical changes while your business keeps developing and innovating? An open solution with a flexible developer team can provide necessary adjustments even if they affect critical components.



OpenRAN versus legacy deployment



After choosing the menu, we can start cooking - together 

YOU NEVER COOK ALONE

We accompany you on your journey of technological transformation and the implementation and operation of your networks and services:



TECHNOLOGICAL TRANSFORMATION PLAN

From first evaluation to use-case creation and description of your whole business case.



INITIALISATION ANALYSIS & CONCEPTION

Specification & testing of selected specifications. Operating prototypes and roll-out concepts.



CONTRACT & LICENSE MANAGEMENT

Procurement strategy, tender management, contract negotiation and execution.



SETUP & PILOTING

Pilot application, application of test licenses, solution set up, acceptance tests and evaluation



IMPLEMENTATION & ROLLOUT

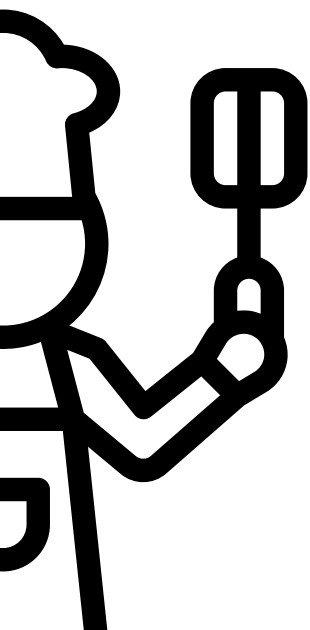
Creation of roll-out plan, application of licenses, commissioning, installation, civil works



OPERATION & QUALITY ASSURANCE

ITIL service management, project management, SRE, reportings, supplier management and continuous improvement of services.

Meanwhile you benefit from our huge partner network 



PARTNER ECOSYSTEM

Not only is our virtualisation stack as well as the RAN completely transparent and open source and our DevOps teams specialize in all necessary applications and software. Additionally you can benefit from our partner network which provides additional expertise and support.

The logo for Airspan, featuring the word "Airspan" in a black, italicized sans-serif font.

Radio Access

The logo for Druid, consisting of the word "Druid" in white text inside a black trapezoidal shape.

5G Core

The logo for FMB Engineering, with "FMB" in orange and "ENGINEERING" in black, accompanied by a cluster of orange dots.

Radio Planning
Civil Work

The logo for Nokia, with the word "NOKIA" in blue capital letters.

Radio Access
& Core

The logo for RAD, with the letters "RAD" in white inside a red rounded rectangle.

Your Network's Edge

R&D

The logo for Atrinet, with "Atrinet" in green and "Digital Transition Experts" in black below it.

Network
Automation

The Cisco logo, featuring a stylized signal tower icon above the word "CISCO" in blue.

Radio Access
& Core

The logo for Dell EMC, with "DELL" in blue and "EMC" in grey.

Server
Technology

The logo for FibroLAN, with "FibroLAN" in blue and "FIBEROPTIC NETWORKING" in black below it.

Time Precision
Networks

The logo for JMA Wireless, with "JMA" in large blue letters and "WIRELESS" in smaller blue letters below it, with a signal icon above the "A".

Radio Access

The logo for Juniper Networks, with "JUNIPER" in blue and "NETWORKS" in black below it.

R&D

The logo for Metaswitch, with the word "metaswitch" in blue lowercase letters.

OpenRAN

Contact us for your OpenRAN recipe [→](#)

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ABOUT SITICOM

siticom is a technology innovation company founded in 2010 with a focus on the digital transformation of infrastructure and networks of tomorrow. siticom's portfolio is geared towards the complex technological challenges of the future. The solutions and services range from technical and strategic advice to engineering services for planning and realizing network infrastructures in communication networks and corporate networks. Thanks to a highly innovative, flexible grid of system partners, siticom is able to implement high-quality solutions at short notice. The combination of consulting, design and architecture bundled with the assumption of system and implementation responsibility as well as test-automation distinguishes siticom as an independent system integrator.