

Can You Seize the 5G Revenue Opportunity?

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5G technology is here, but can you make a 5G business?

Nearly **10%** of all mobile connections will be 5G by 2023 (IDC)

\$1 trillion capex to be spent on 5G between 2018 and 2025 (GSMA)

In 2019, 5G became a commercial reality, but its true potential lies in the future, and is largely unknown

How do you prepare for the unknown?



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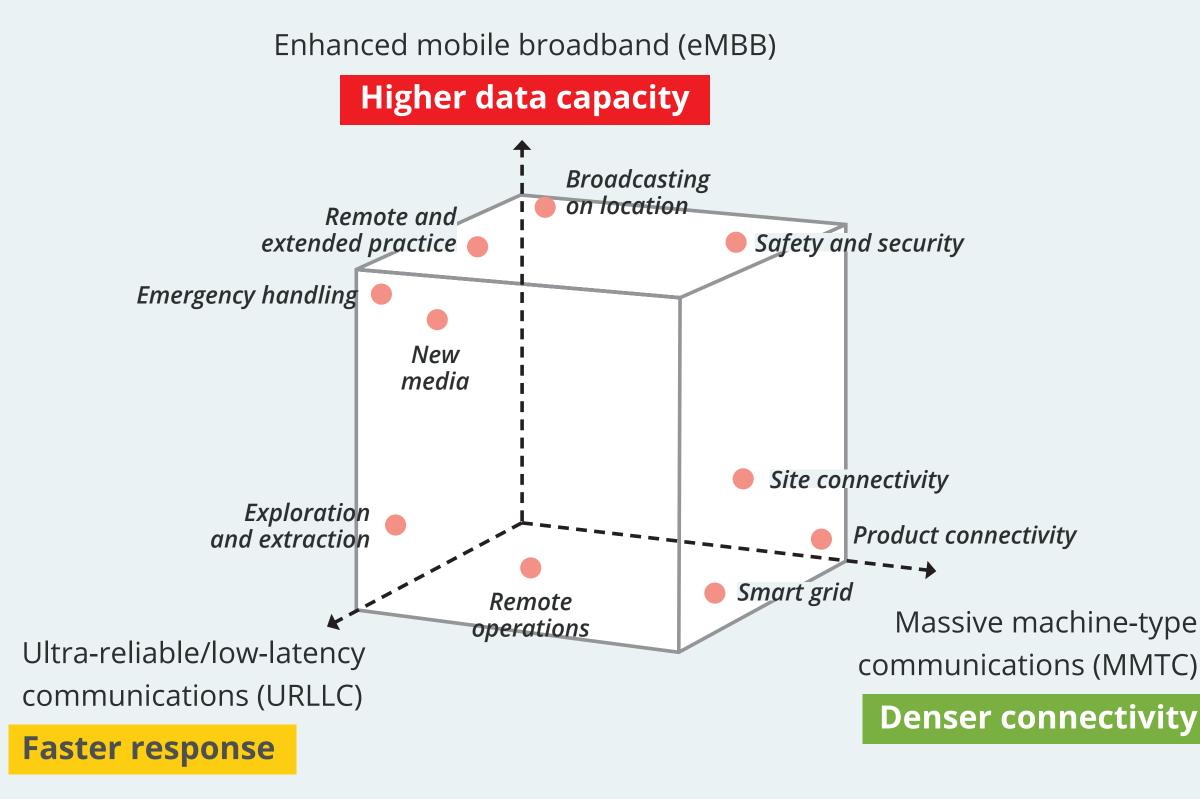
CSPs must ask themselves:



- Have I identified vertical use cases, and partners, to start building my 5G business?
- Can I integrate with partners to build targeted services?
- Can I support new business models to make these use cases a commercial reality?
- Am I agile enough to grow my 5G business with new use cases and business models that nobody has thought of yet?

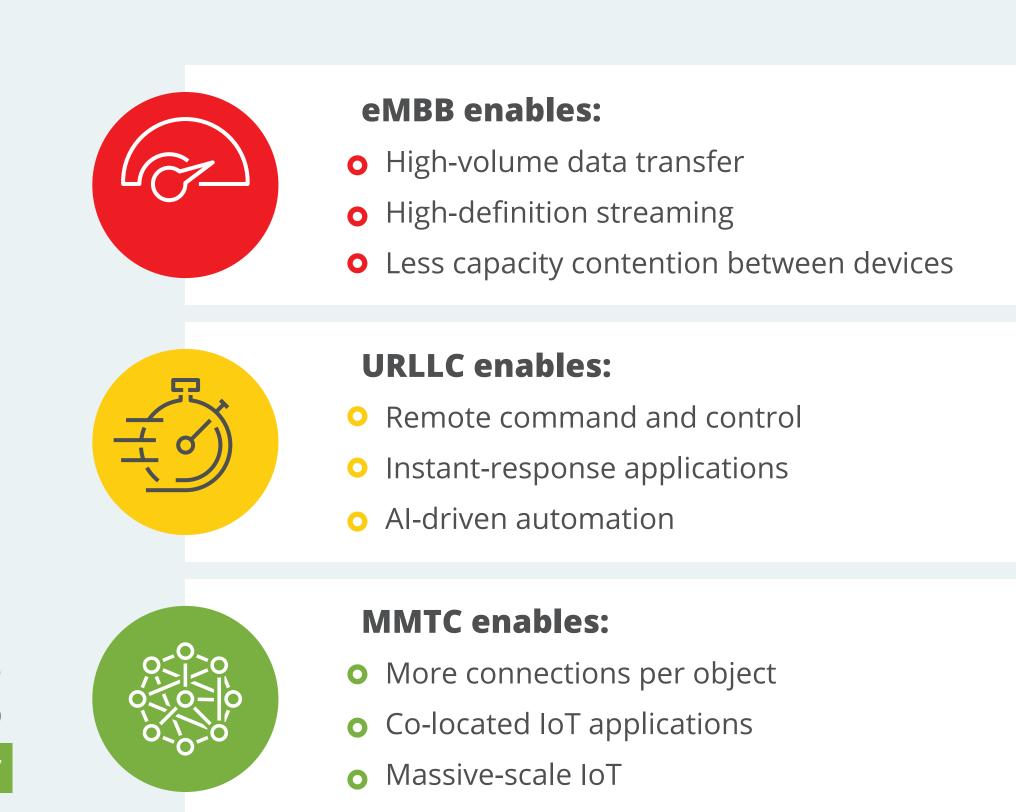


5G capabilities expand the scale and scope of the enterprise opportunity for mobile operators



From smartphones and SIMs to connectivity and solutions for mission-critical operations — 5G will create **new revenue opportunities** that mobile operators must seize



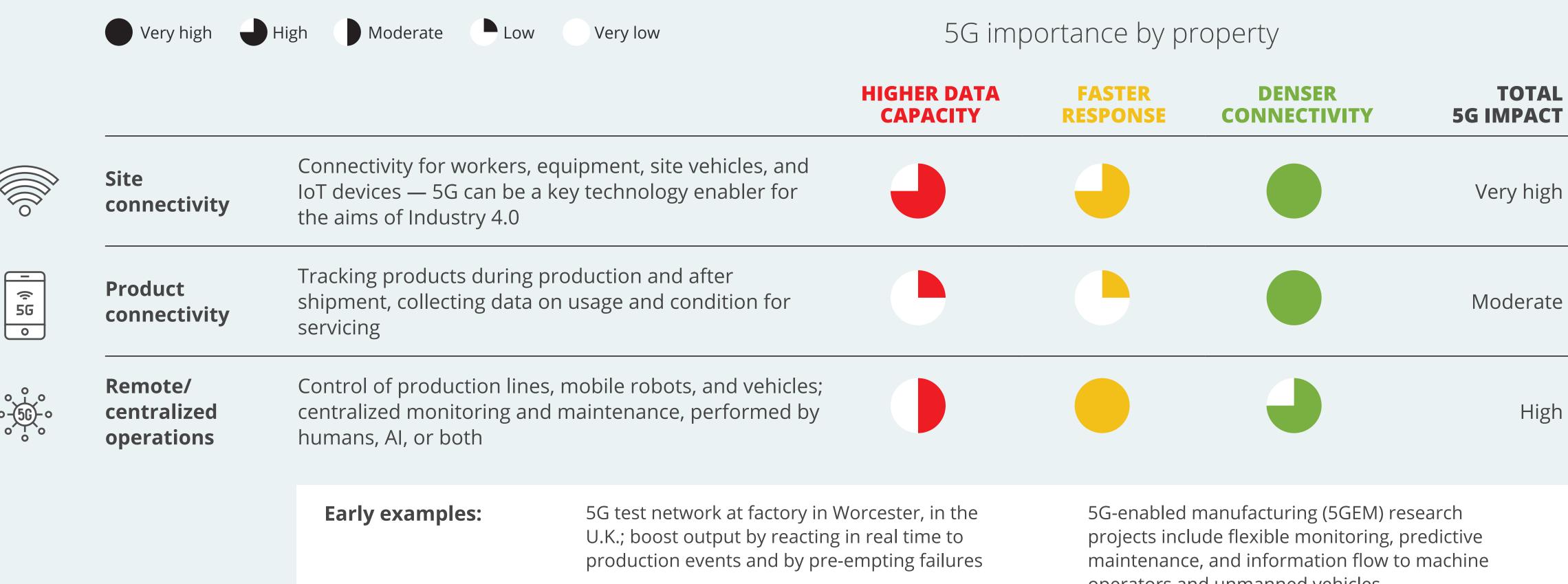








Finding the 5G opportunity: manufacturing





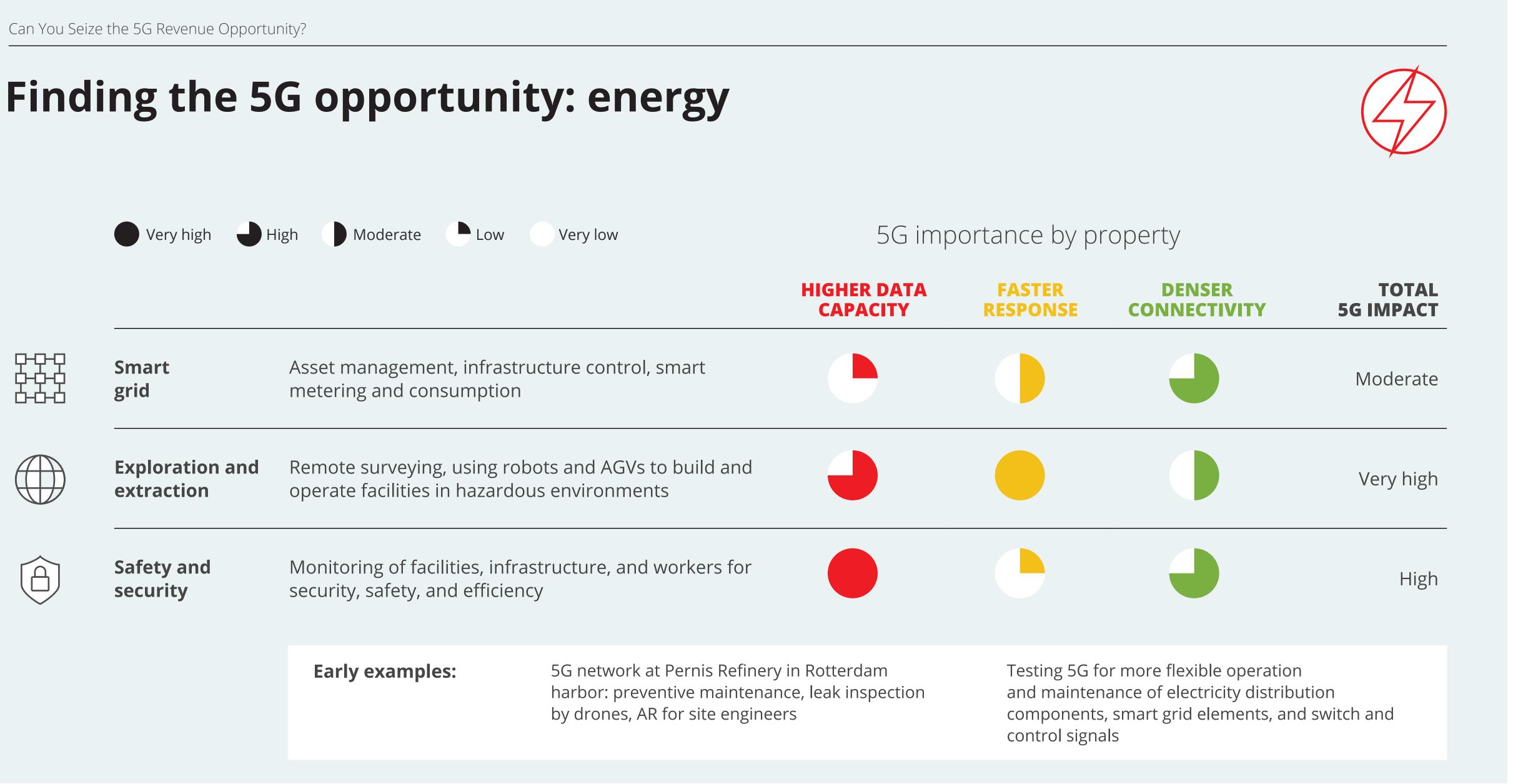
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operators and unmanned vehicles

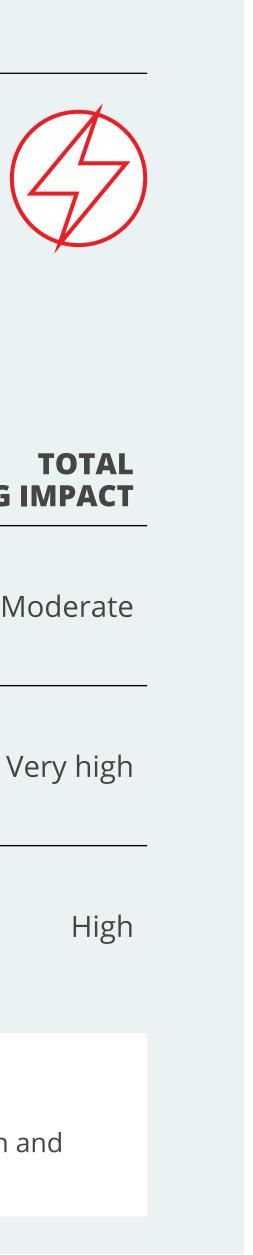




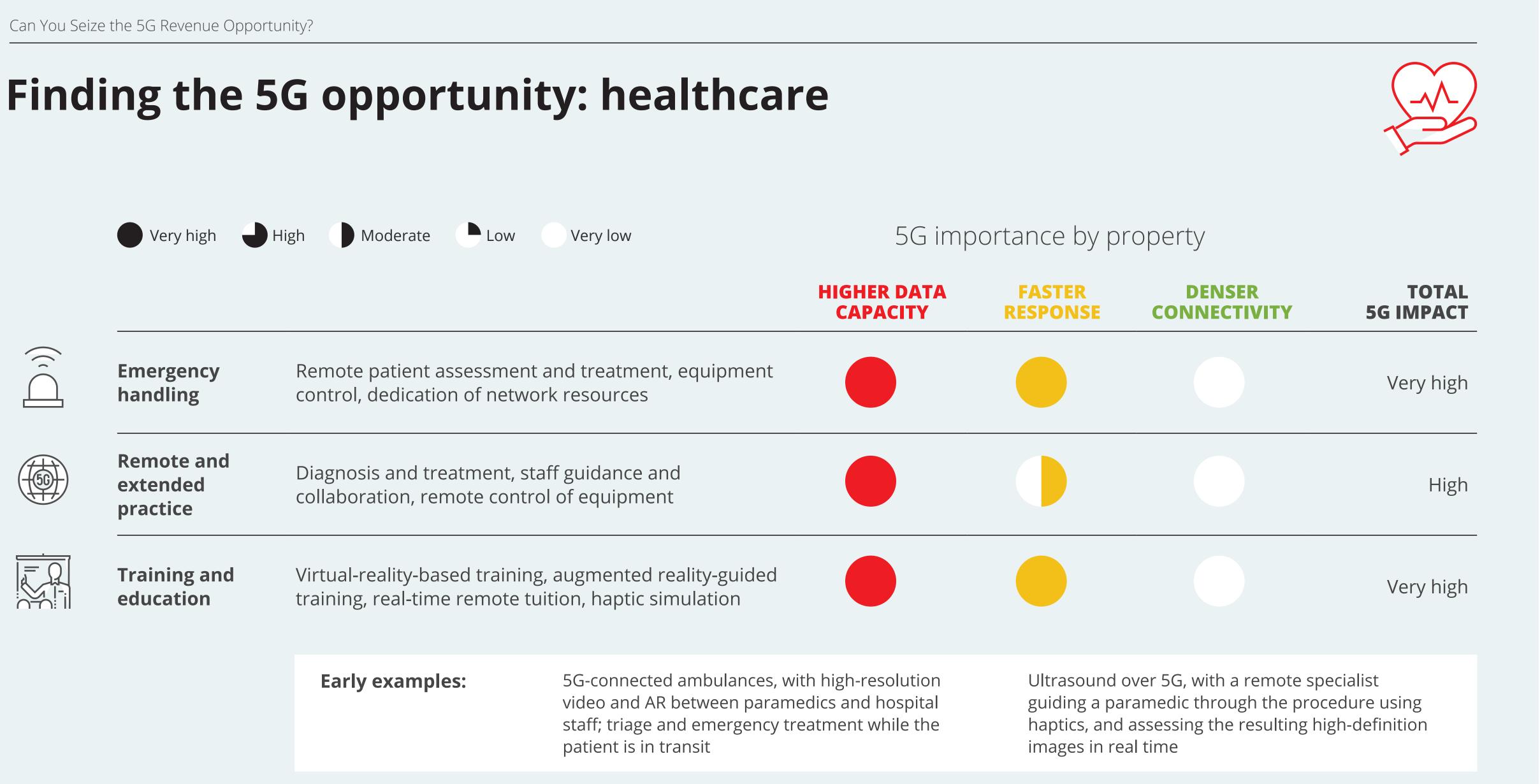






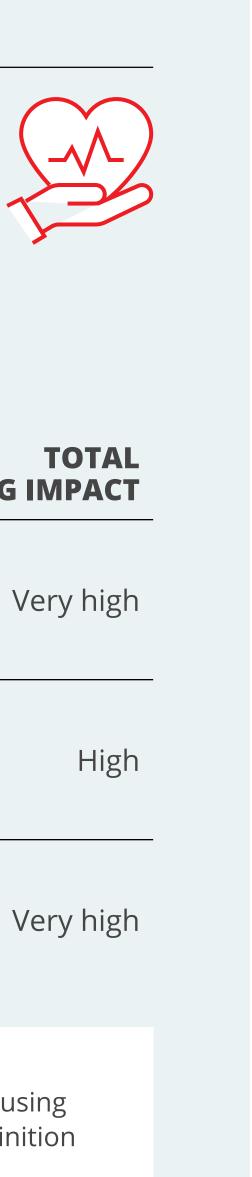




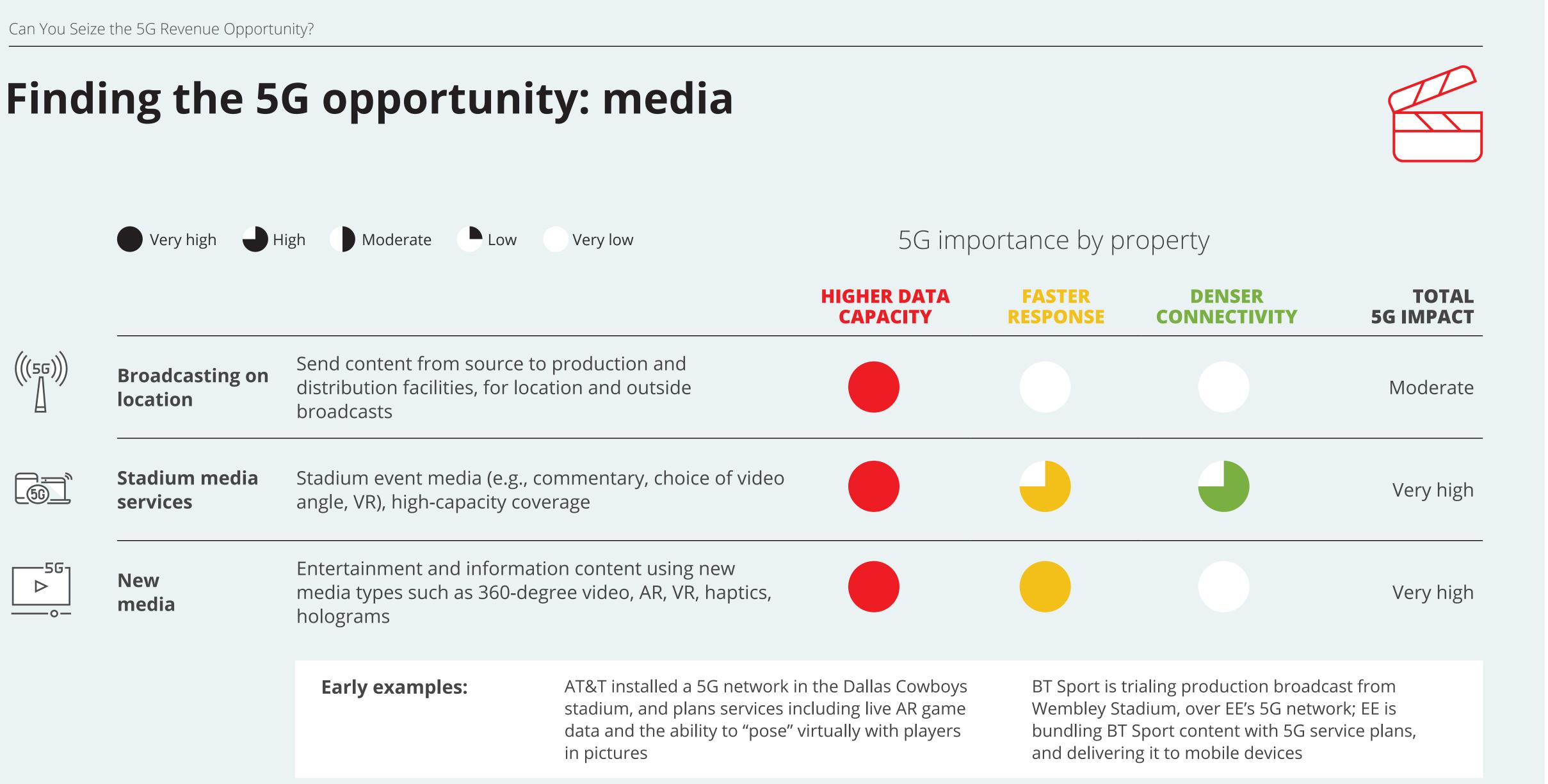












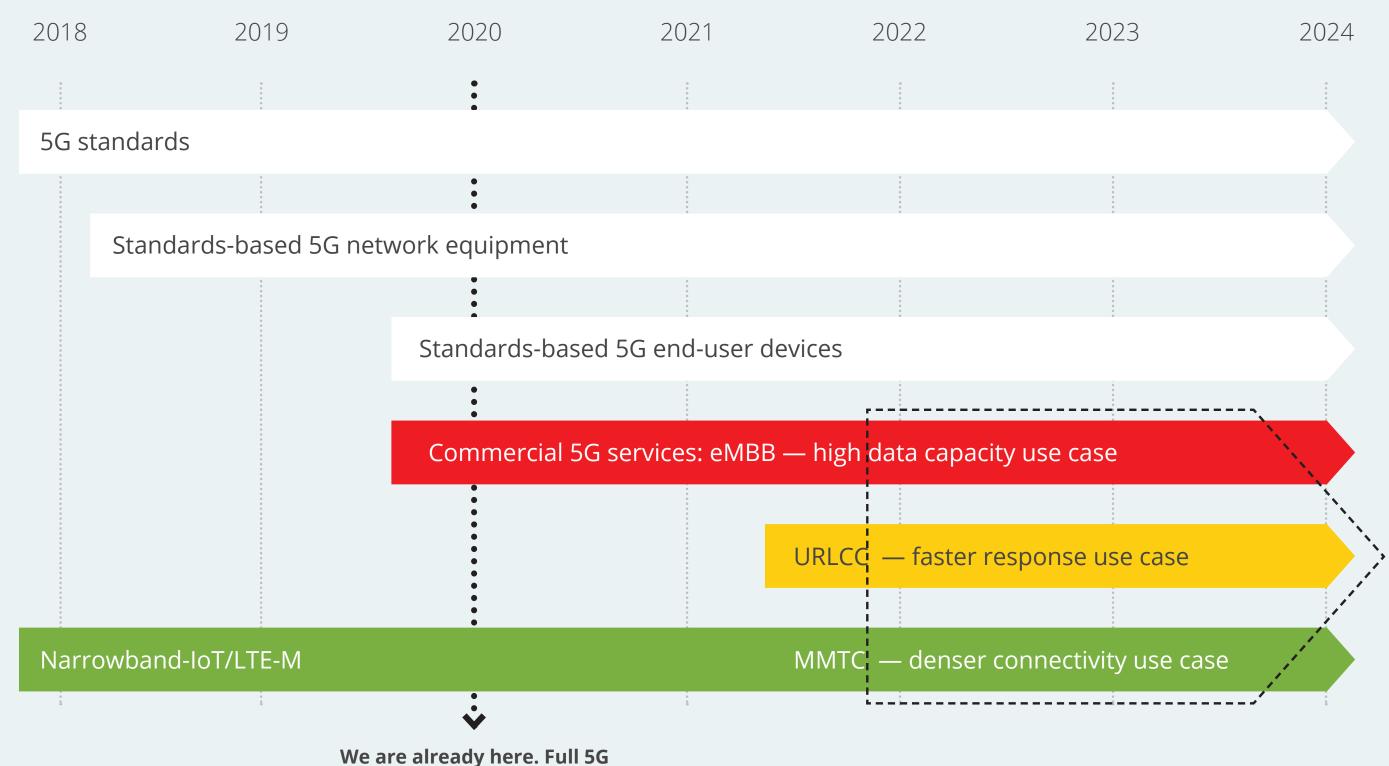






Advanced 5G capabilities will emerge rapidly

Operators must ensure they are ready and able to build monetizable services on new 5G capabilities as they come online. That means getting ready NOW.





What do IT systems need to be able to turn the 5G opportunity into profitable services?



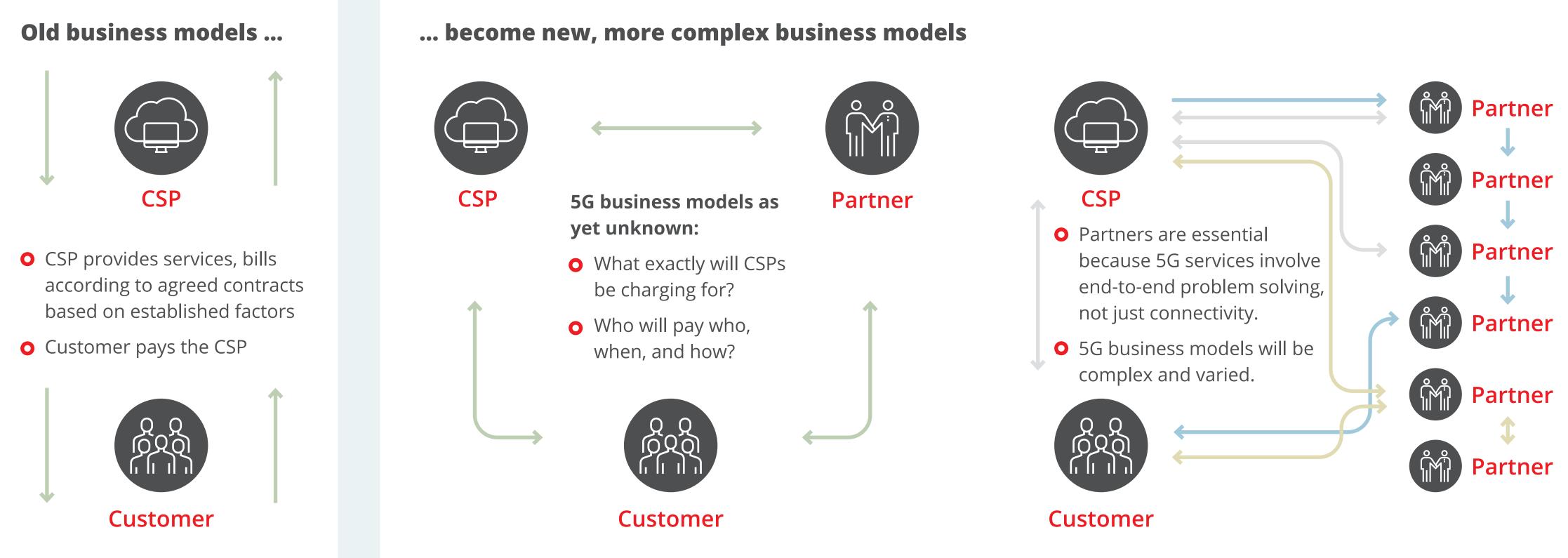
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capability and network slicing will soon be realities in the network.





5G business models demand flexibility, agility, and everything real time



IT systems must support experimentation, scaling what works and quickly discarding what doesn't.







5G services demand simple self-service for customers and partners

Business models may be complex, but managing them must be simple

Customers need	>	To order and manage services with just a coup channel ecosystem taking in new touchpoints s vehicles
Partners need	>	Easy onboarding and integration through APIs, to support their diverse business models and s
CSPs need	>	Quick design, creation, and deployment of serv non-technical users, as well as order managem complex, on-demand services
		Supporting quick time to market for all new 5G-enabled services



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ple of clicks, and have a strong omnisuch as new IoT devices and smart

s, as well as robust partner management services

vices with user-friendly interfaces for ment to support real-time delivery of

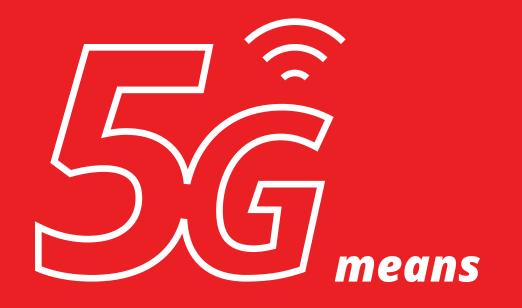


Simple and easy access for those who need it must be coupled with thorough and pervasive security — new 5G applications put connectivity into critical functions, and security risks cannot be tolerated.





5G data explosion demands new approach to data and security



- Massive increase in device numbers
- Devices with more complex data feeds and functionalities
- Edge computing requirements for latency and resilience
- Massive increase in signalling data
- Massive increase in management data





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IT systems will need:



Data management platforms to cope with new data processing and storage paradigms



Pervasive AI, enabling massive data to be analyzed and acted on in real time, as 5G application demand increases

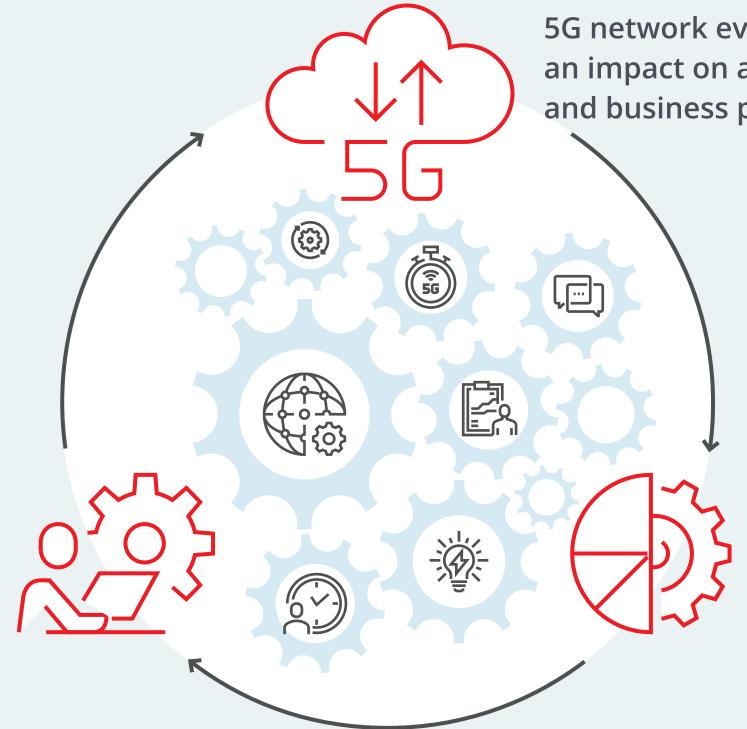


Security integrated at all levels, from device to core and everything in between; larger data volumes lead to higher risks, and many 5G applications will be very intolerant of risk





Agility, cohesion, and rapid scaling needs require enterprise and network resource planning integration

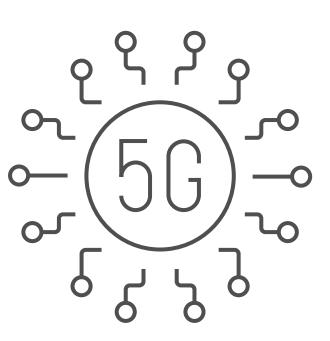


Integrated approach will improve efficiency and scalability, enabling more agile monetization as 5G digital business models proliferate



5G network evolution has an impact on all network and business processes

> Integrating ERP functions with network and billing and revenue management provides a more transparent view of resources across the organization



The 5G data explosion impact is felt here too — appropriate data management and integration of AI are essential.





Holistic telco cloud strategy underpins the evolution to 5G

Telco cloud evolution happening in parallel and supporting 5G

		0 0 0
2019	2022	20
Hybrid virtualized SDN NFV	Ubiquitousconnectivity	Hol
Distributed cloud	Programmablenetwork	clou
Hybrid private/public	Zero touch	



Holistic, microservices-driven, cloud/virtualization-based, distributed telco infrastructures underpin the evolution path to 5G telco operations



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olistic, integrated oud-native telco strategy



Cloud underpins improvements in **operational efficiency**: continuous closed loop selfhealing, scaling resources due to virtualized, private/public, and distributed cloud infrastructures

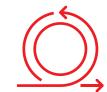


Innovation booster: new markets, net new services, upsell revenue opportunities, outrun



New business models: payas-you-go and pay-as-you-grow enable B2B2B and B2B2C

commodity rat race



Agility: time to market reduced from months to hours

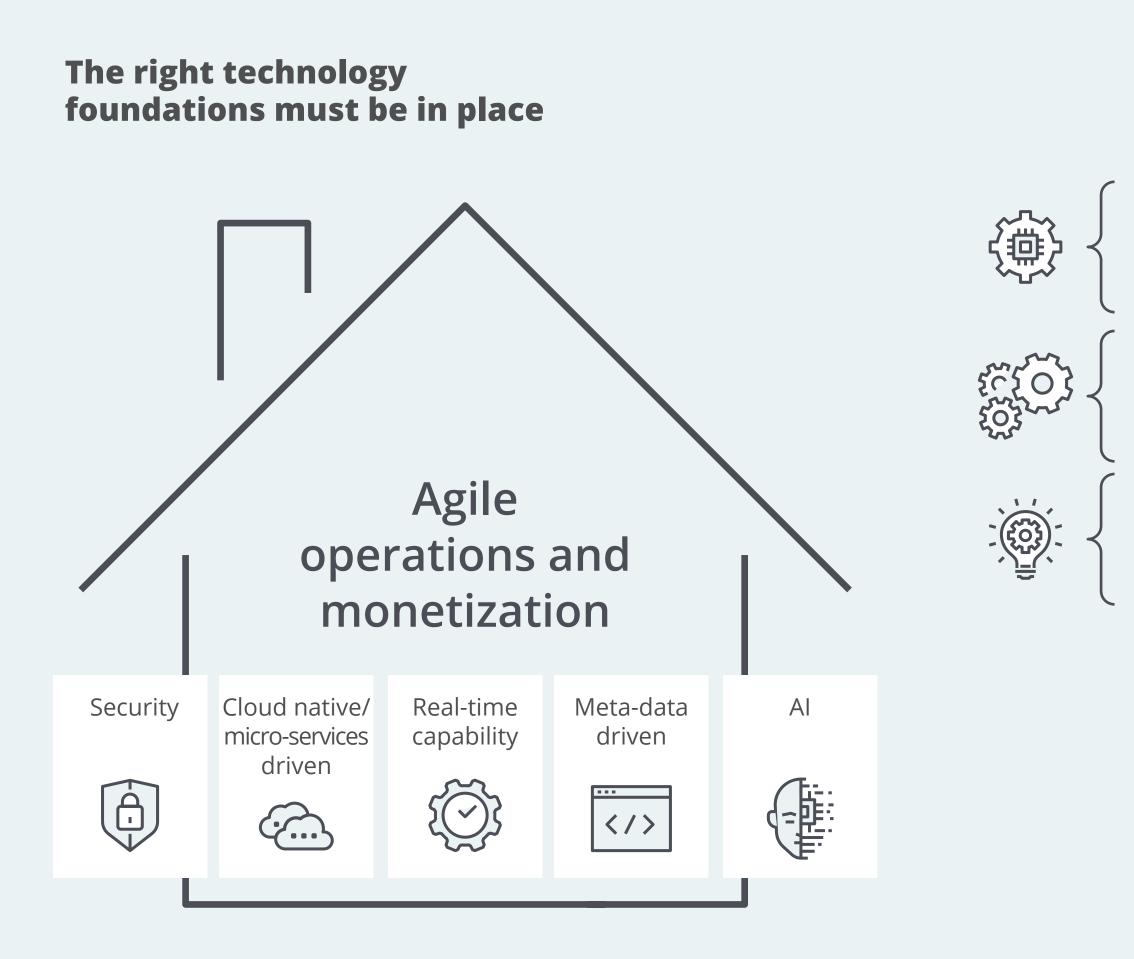


Monetization: of event-based, cognitive, transactional 5G services





Are you ready to monetize 5G?





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Preparations for 5G monetization are part of the journey to total organizational DX maturity

TECHNOLOGY — DX means using modern technologies, such as cloud, artificial intelligence, and augmented reality, to build new services

5%	38%	i i	10%		43%	
		ans digitizing an o nalyzed and autom	0	assets so that proc	cesses	
3%	20%	17%	57%			3
		nanging the cultur nd customer-centr		nization so that it b	ecomes	
5%	24%	209	6		46%	5%

- Small, ad hoc projects, with no companywide DX vision or plan
- Business units are doing their own DX projects, with limited sharing or collaboration with other units
- A companywide digital strategy exists, but it is under-resourced or has not made much progress
- A companywide digital leadership team and strategy is in place, leading DX across operational, service, and customer-facing teams
- DX has already transformed your business and operations





Are you ready to monetize 5G?





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Cloud solutions can help CSPs enhance their capabilities at speed and deliver some of the essential properties for 5G success:



The flexibility to experiment with new business models, potentially with multiple partners



The power to scale fast when a successful new model is found



Actionable, data-driven insights to improve performance and grow customer relationships in real time



The real-time functionality that modern businesses require

Don't let IT become a roadblock to 5G's full potential.





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