

ITUEvents

ITU Regional Cybersecurity Forum for Europe and CIS

27-28 February 2020
Sofia, Bulgaria

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ITU Regional Initiative for Europe on enhancing trust and confidence
in the use of ICTs

ITU Regional Initiative for CIS on the development and regulation of
infocommunication infrastructure to make cities and human settlements
inclusive, safe, and resilient

POLICIES &
STRATEGIES

CERTIFICATION
FRAMEWORKS

DATA
PROTECTION

SECURITY
CHALLENGES

5G, eSIM
IoT, AI



Hosted and co-organized by:



REPUBLIC OF BULGARIA
State e-Government Agency



REPUBLIC OF BULGARIA
Ministry of Transport, Information Technology
and Communications

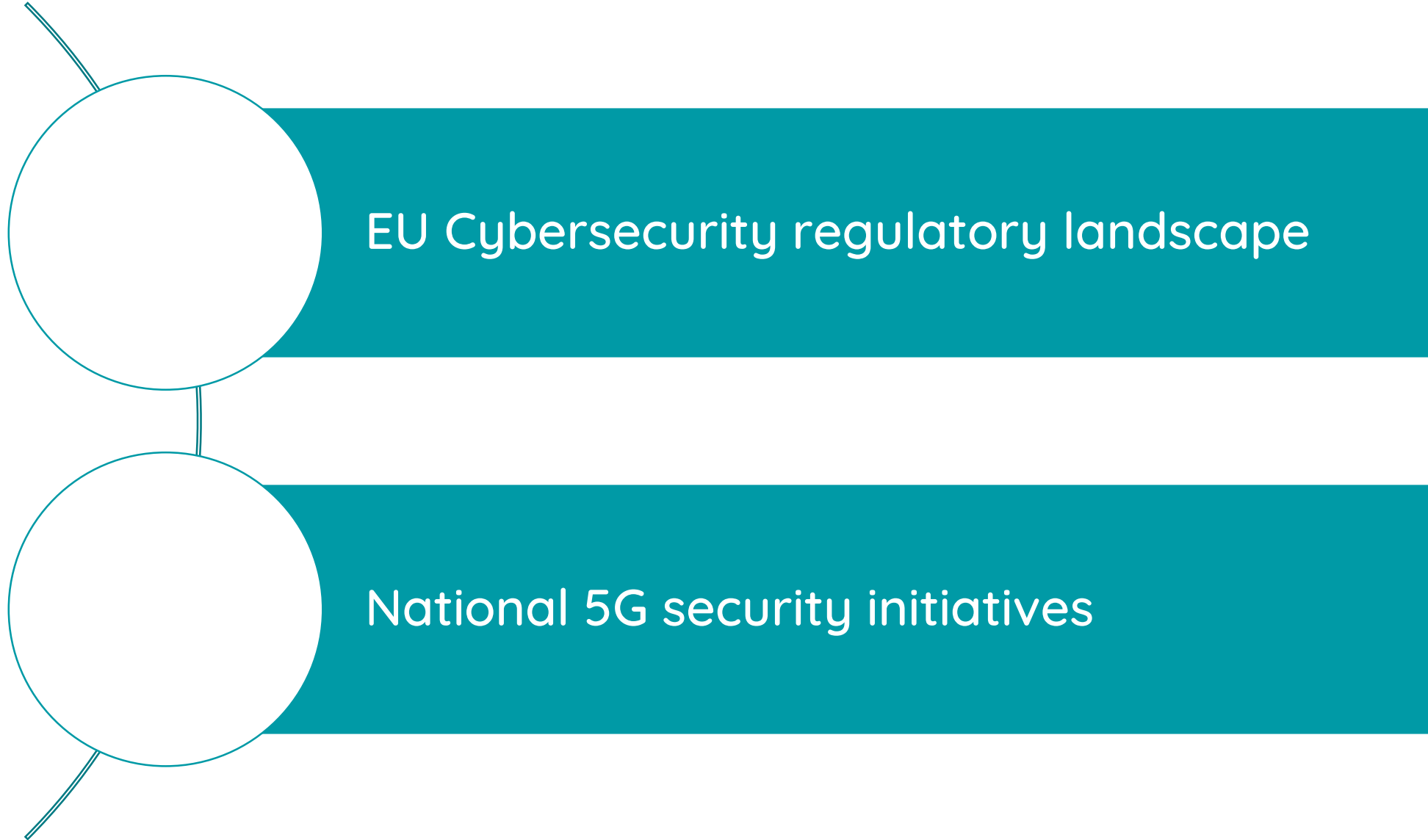


5G security initiatives

Visiola Pula

Sofia, 27 Feb. 2020

Outline

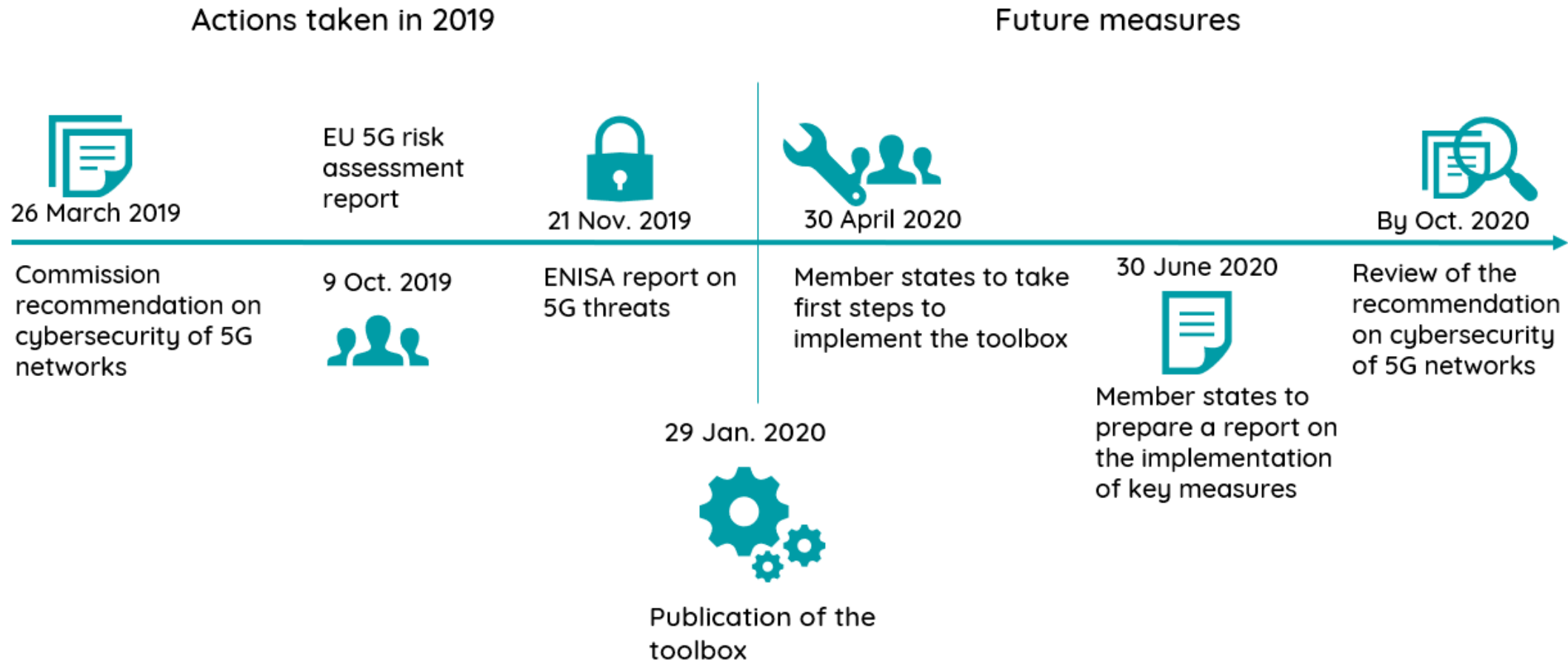


EU cybersecurity regulation

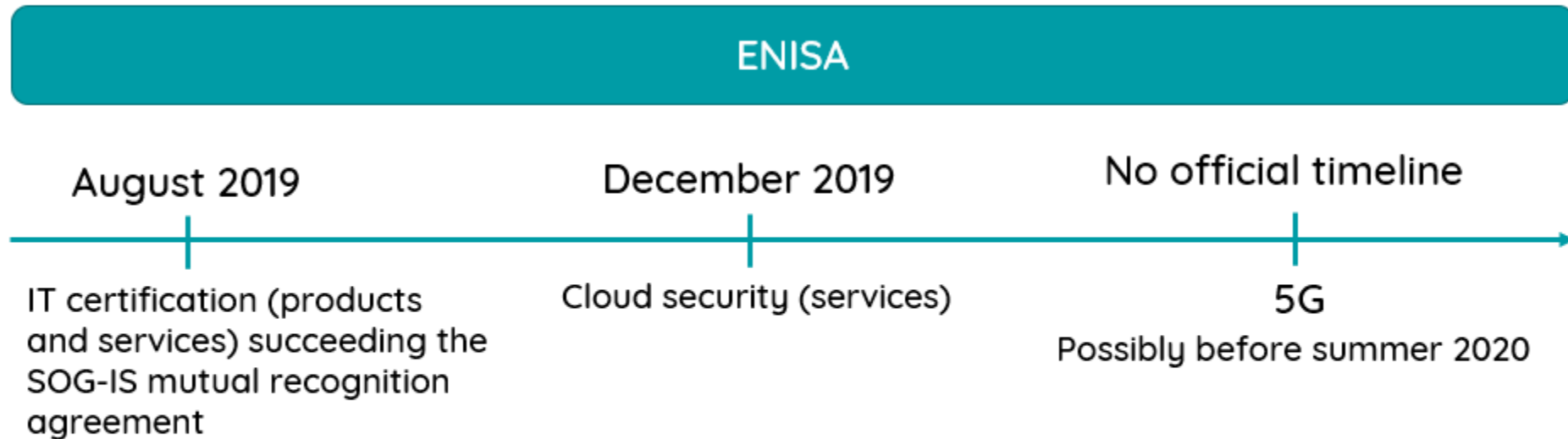
EU cybersecurity framework in a nutshell

Instrument	Content
Telecoms framework (incl. e-Privacy Directive)	<ul style="list-style-type: none">• Security measures• Security and data breach reporting requirements for providers of electronic communications services (ECS) and networks
Directive on the security of networks and information systems (NIS)	<ul style="list-style-type: none">• Security measures• Security incident reporting requirements for operators of essential services (OES) and digital services providers (DSP)
EU Cybersecurity Act	Framework for voluntary EU cybersecurity certification of ICT products, services and processes
5G Cybersecurity Recommendation	European Commission's 5G security recommendations for EU member states
EU 5G toolbox	Lists measures (strategic and technical) to mitigate security threats associated with 5G networks

EU 5G security timeline

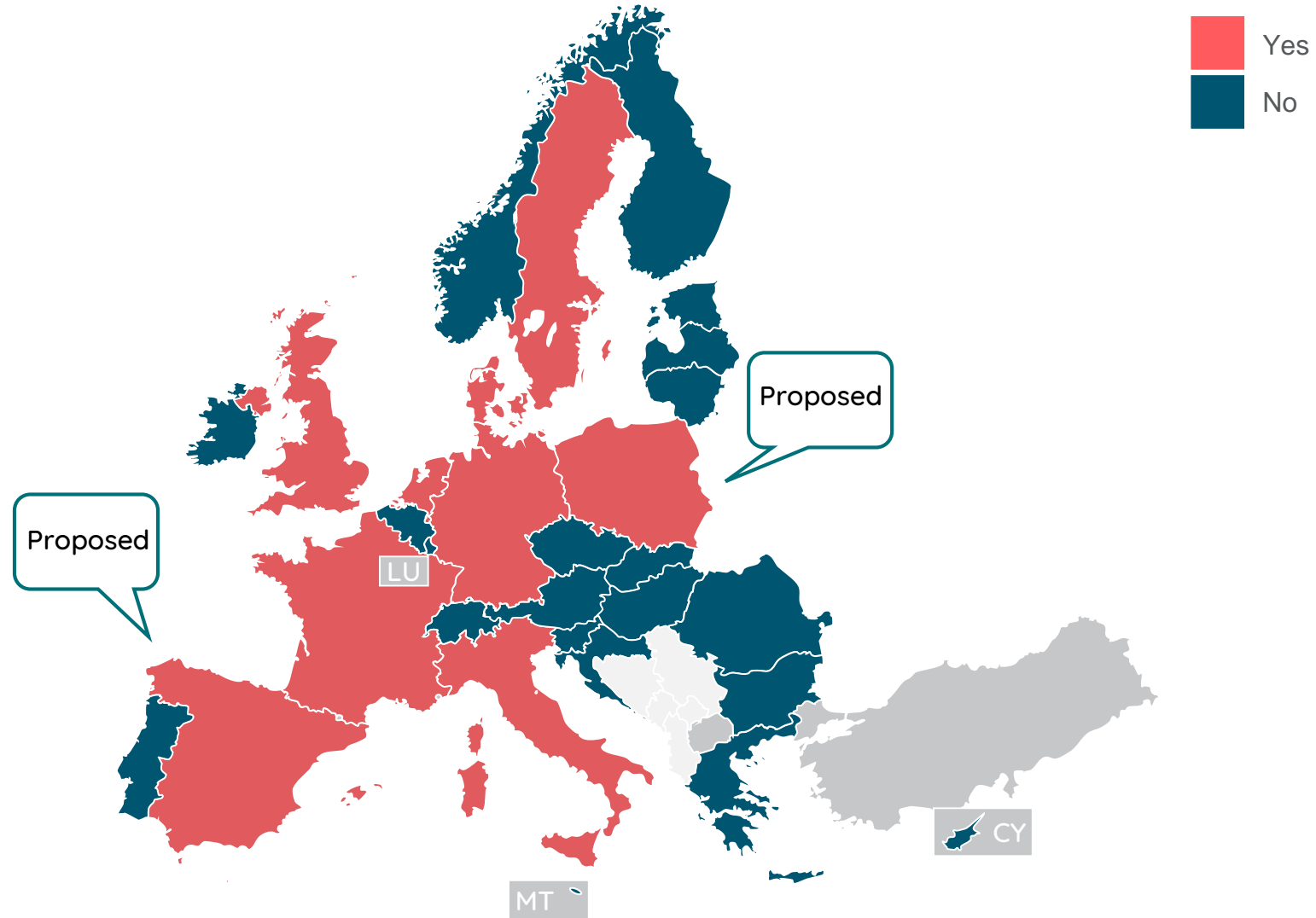


A candidate security certification scheme for 5G?











National 5G security initiatives

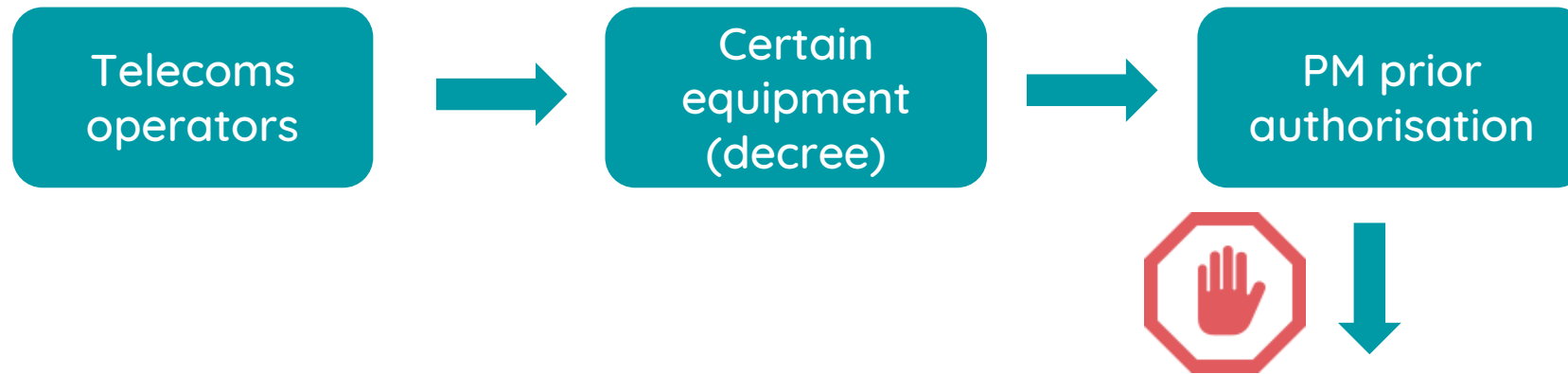
5G security initiatives adopted or proposed?



Common features in 5G security initiatives

Measures	Countries
Direct ban	US 
Possibility to ban equipment from certain suppliers	NL  SE  UK 
Authorisation to acquire/use certain equipment	FR  IT 
Based on general telecoms regulation	DE  DK 

Law protecting defence in 5G (Aug. 2019)



Serious risk to defence and national security interests

No response within two months

Law addressing security of 5G



Key provisions

Notification obligation

Operators →

Contracts concluded for the supply of ICT tools (5G) with companies **outside of Europe** to notify it to the National Centre of Assessment and Notifications (NCAN)

Gov. veto power

→

On ICT tools used in 5G when supplied by companies **outside Europe**. To be notified to the gov. 10 days in advance

Golden share

→

Block foreign acquisition giving the buyer control of a company (assets) belonging to a strategic sector

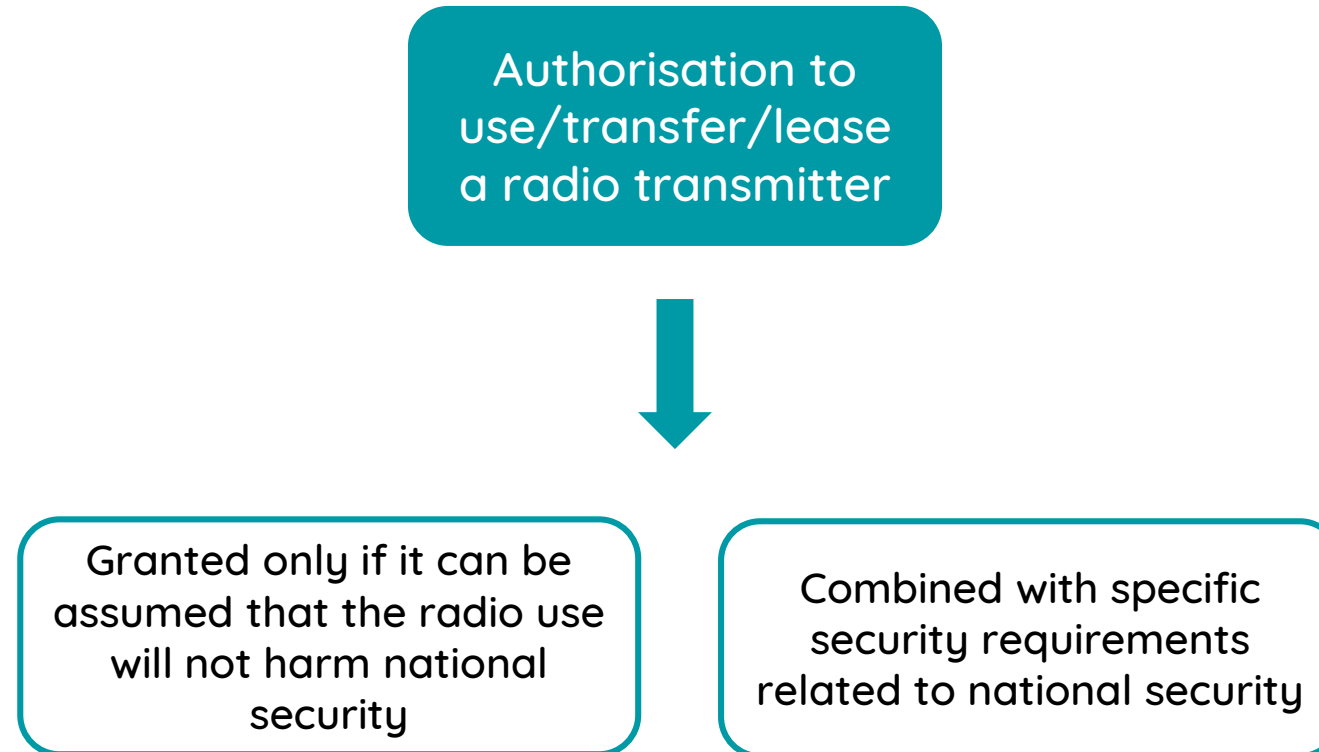


NCAN has 45 days to decide if imposing tests

Outside Europe

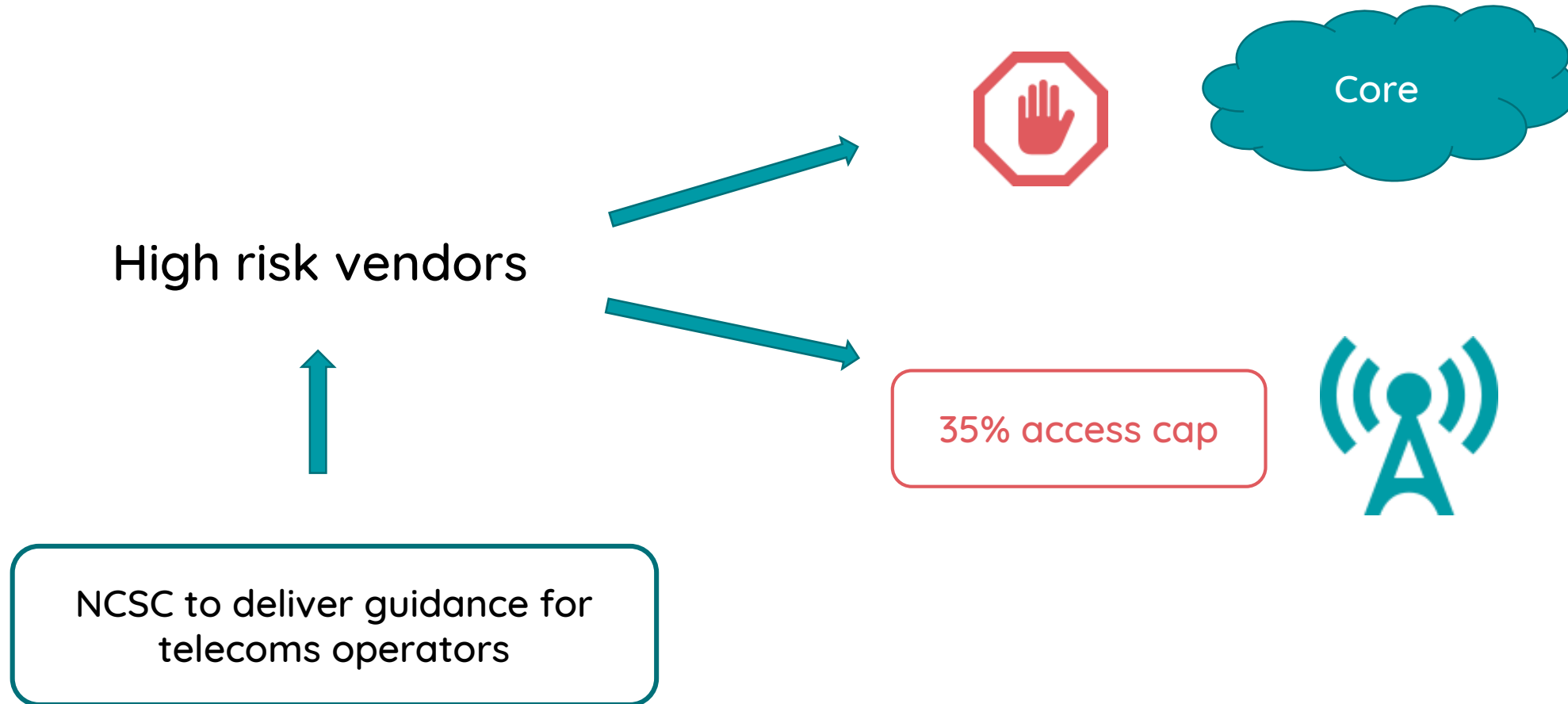
- Does not have a permanent establishment or principal place of business within the EU
- Permanent establishment or principal place of business within the EU but controlled directly or indirectly by a company outside Europe
- Any company established in Europe that does not comply with the requirements of the law

Restrictions through spectrum (Nov. 2019)



➔ Enforceable from 1 Jan. 2020

Gov. decision (Jan. 2020) → Future draft law

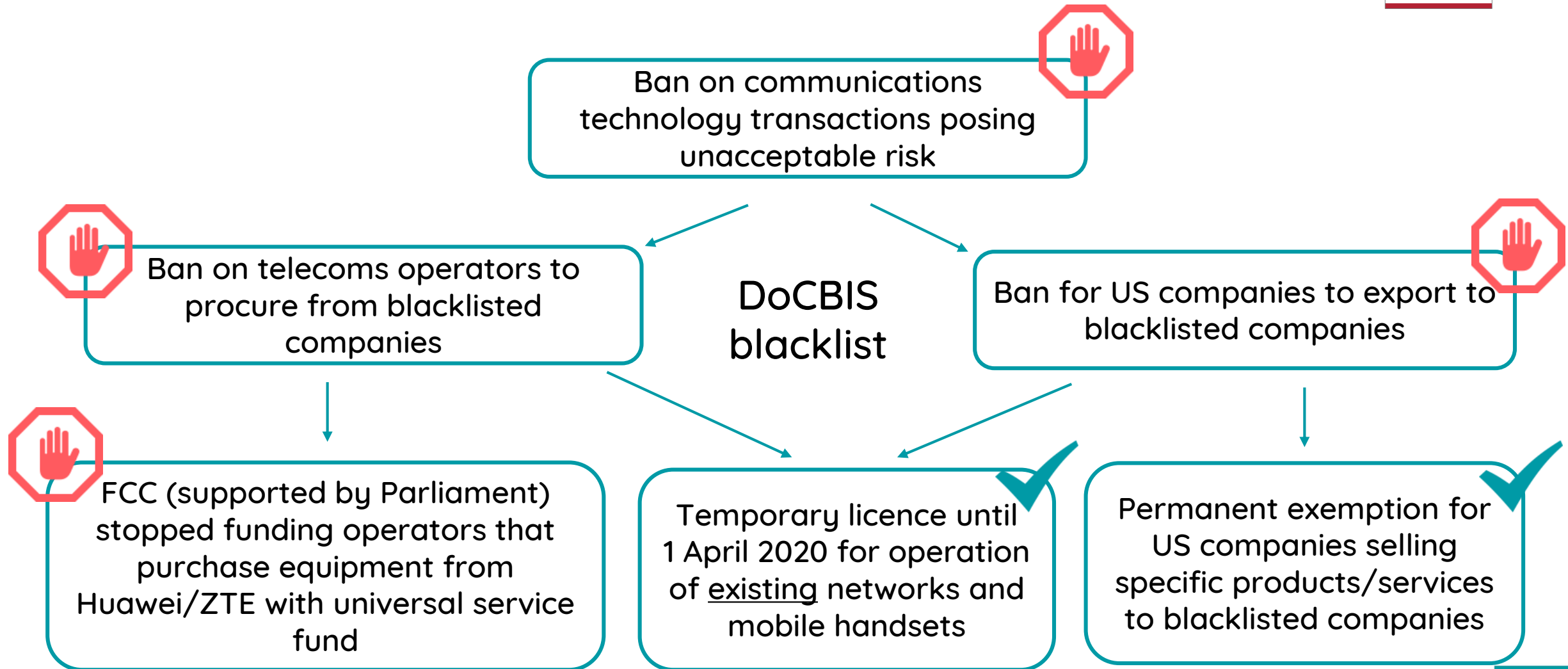


BNetzA security catalogue (version 2.0) - pending



ECS/N with increased risk potential, incl. 5G	Mandatory certification of <u>critical components</u>
	Security monitoring
	Proof of trustworthiness of manufacturers and suppliers
	Assurance of product integrity (i.e. through acceptance tests)
	Special requirements for staff with access to safety-relevant areas
	Guarantee of sufficient redundancies
	Avoidance of monocultures

Trump executive order (May 2019)



5G toolbox - crosscheck

National criteria for high risk suppliers and possibility to restrict



DK  UK 

Security standards in procurement



SE 

Strick access control

Diversity of suppliers



DE 

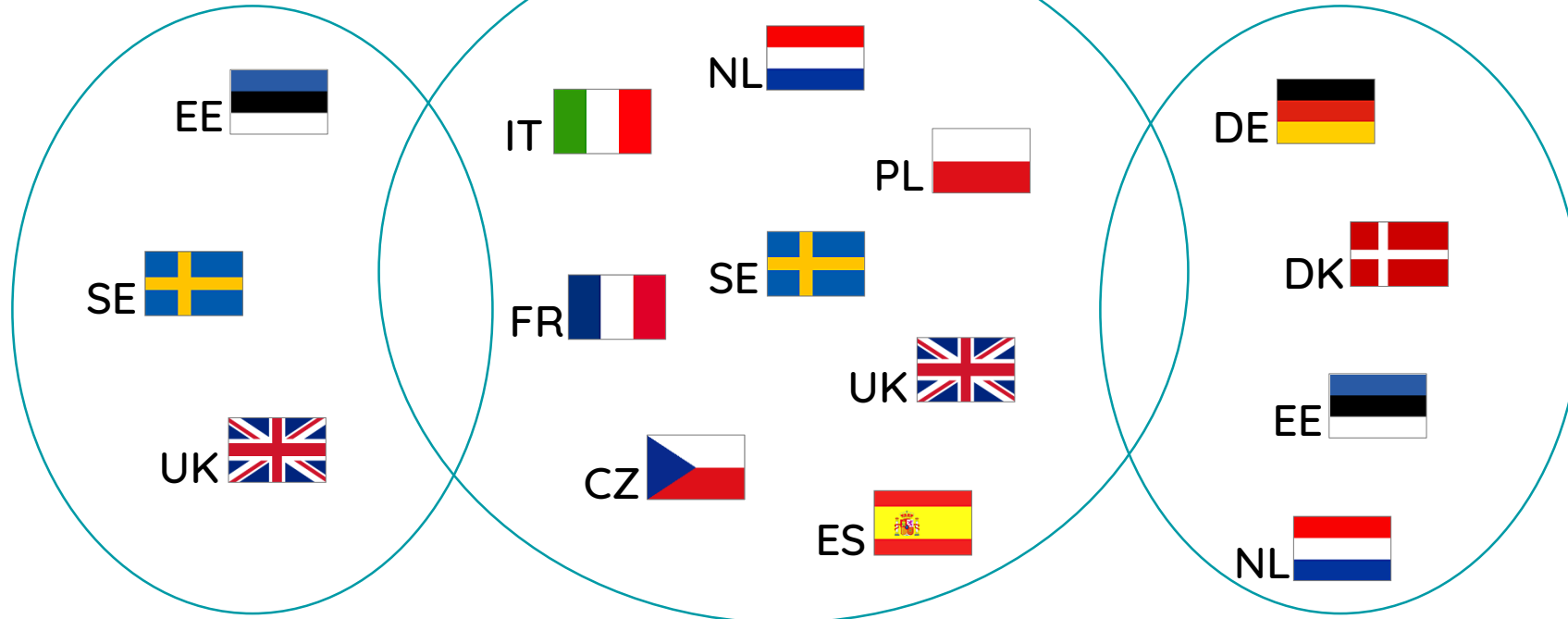
Certification for critical components in 5G

Recap

5G specific initiatives

General telecoms security requirements

Additional procurement initiatives



No concrete measures yet

- AT 
- BE 
- BG 
- LV 
- LT 
- RO 
- CH 
- CY 
- FI 
- GR 
- HR 
- HU 
- IE 
- LU 
- MT 
- PT 
- SI 
- SK 



Thank you!

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