

Trust in a Digital Society



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Trust in a digital society

- Building trust in the online environment is key to economic and social development
- Lack of trust, in particular because of a perceived lack of legal certainty, makes consumers, businesses and public authorities hesitate to carry out transactions electronically and to adopt new services
- Main obstacles to the virtuous cycle of the digital economy identified by the Digital Agenda for Europe
 - Fragmentation
 - Lack of interoperability
 - Rise in cybercrime
- eID and trust services provide a common foundation for secure electronic interaction



Strengthen EU Single Market by boosting **TRUST** and **CONVENIENCE** in **secure** and **seamless** cross-border electronic transactions

Provide a consistent set of rules throughout the EU



eIDAS – The Regulation in a nutshell

2 MAIN CHAPTERS SUBJECT TO DIFFERENT RULES AND REQUIREMENTS

Chapter II

Mutual recognition of e-identification means

Chapter III

Electronic trust services

Chapter IV



Electronic Documents

eID

17.09.2014

Entry into force of the eIDAS Regulation

29.09.2015

Voluntary cross-border recognition

29.09.2018

Mandatory cross-border recognition

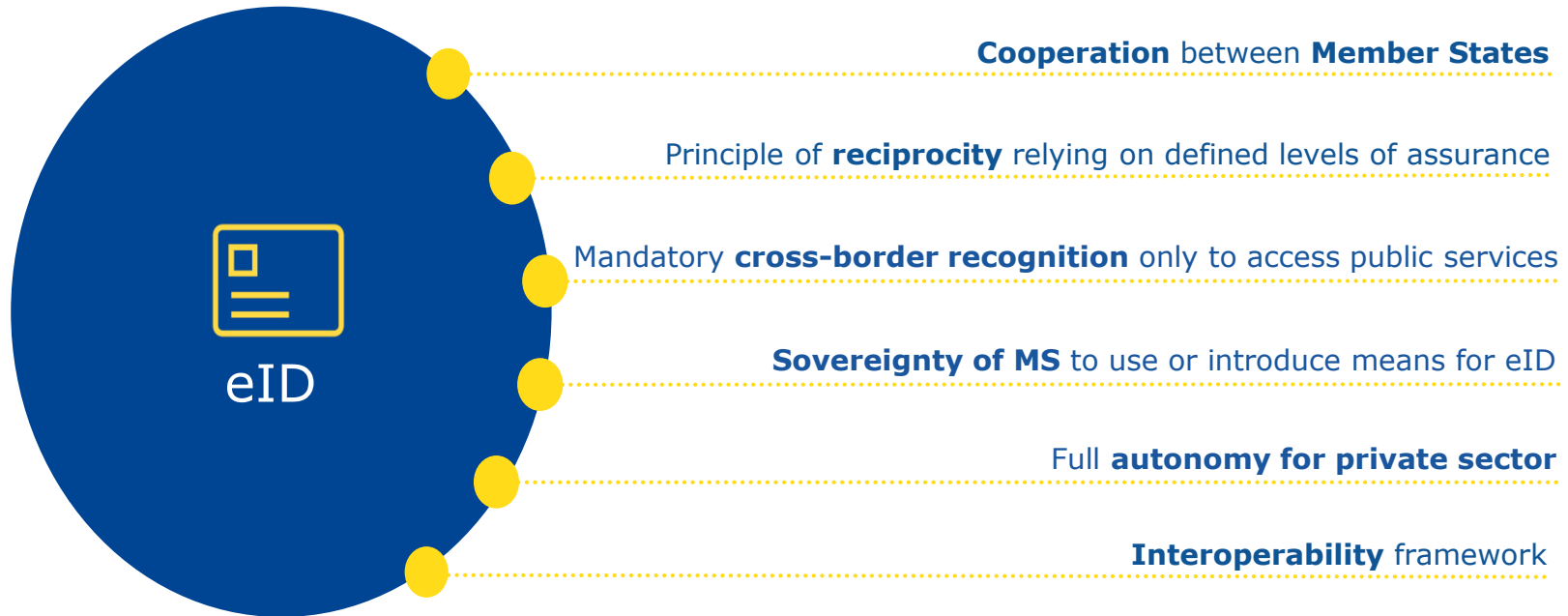
Trust Services

eSignature Directive rules

1.07.2016

Date of application of eIDAS rules for trust services

eIDAS: Key principles for eID



*The Regulation does not impose the use of eID

eID schemes notified

 **Andrus Ansip** 
@Ansip_EU Suivre

From 29 September 2018 you have the right to use your national e-ID across borders in Europe #EIDAS for instance to access public services or to sign up easily and safely to private online services. #egovernment #egov #digitalrights #EUandMe










#DIGITALRIGHTS
In the Digital Single Market

Better online public services

- including **rights** to
 - use your **national ID** across borders
 - ask for birth certificates, start a business, and more online
 - submit information **only once**

#DigitalSingleMarket
#EUandMe

Notified eID schemes		
	Country	Publication
	Germany	26 Sept 2017
	Italy	10 Sept 2018
	Spain	7 Nov 2018
	Luxembourg	7 Nov 2018
	Estonia	7 Nov 2018
	Croatia	7 Nov 2018
	Belgium	27 Dec 2018

- **PT** has notified
- **UK** - opinion on peer-review
- **CZ, IT and NL** - peer-review
- **LV** – has pre-notified

eIDAS – Trust services

Horizontal principles

Liability

International
aspects

Supervision

Security
requirements

Data protection

Trusted lists

Qualified services

Prior authorisation

EU trust mark

Electronic
signatures,
including
validation and
preservation
services

Electronic seals,
including
validation and
preservation
services

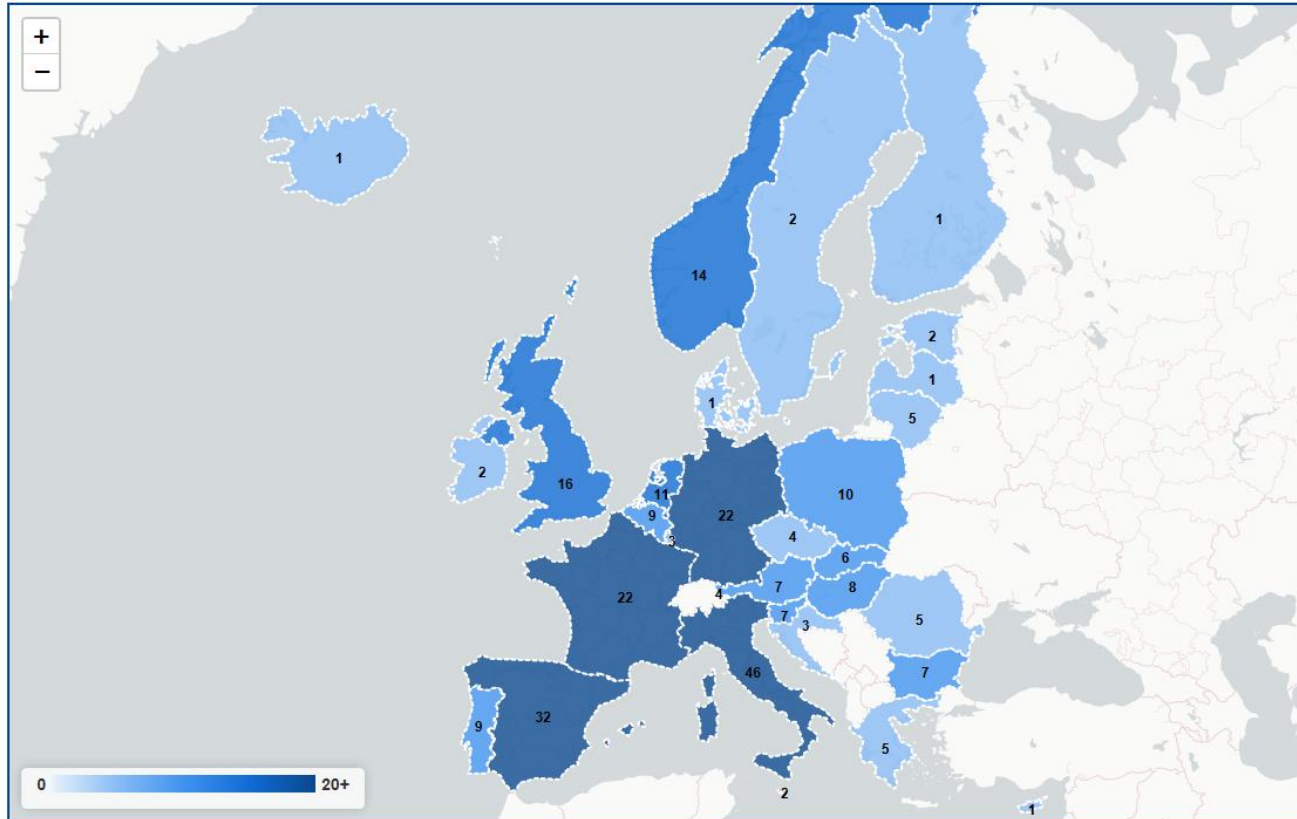
Time stamping

Electronic
registered
delivery service

Website
authentication

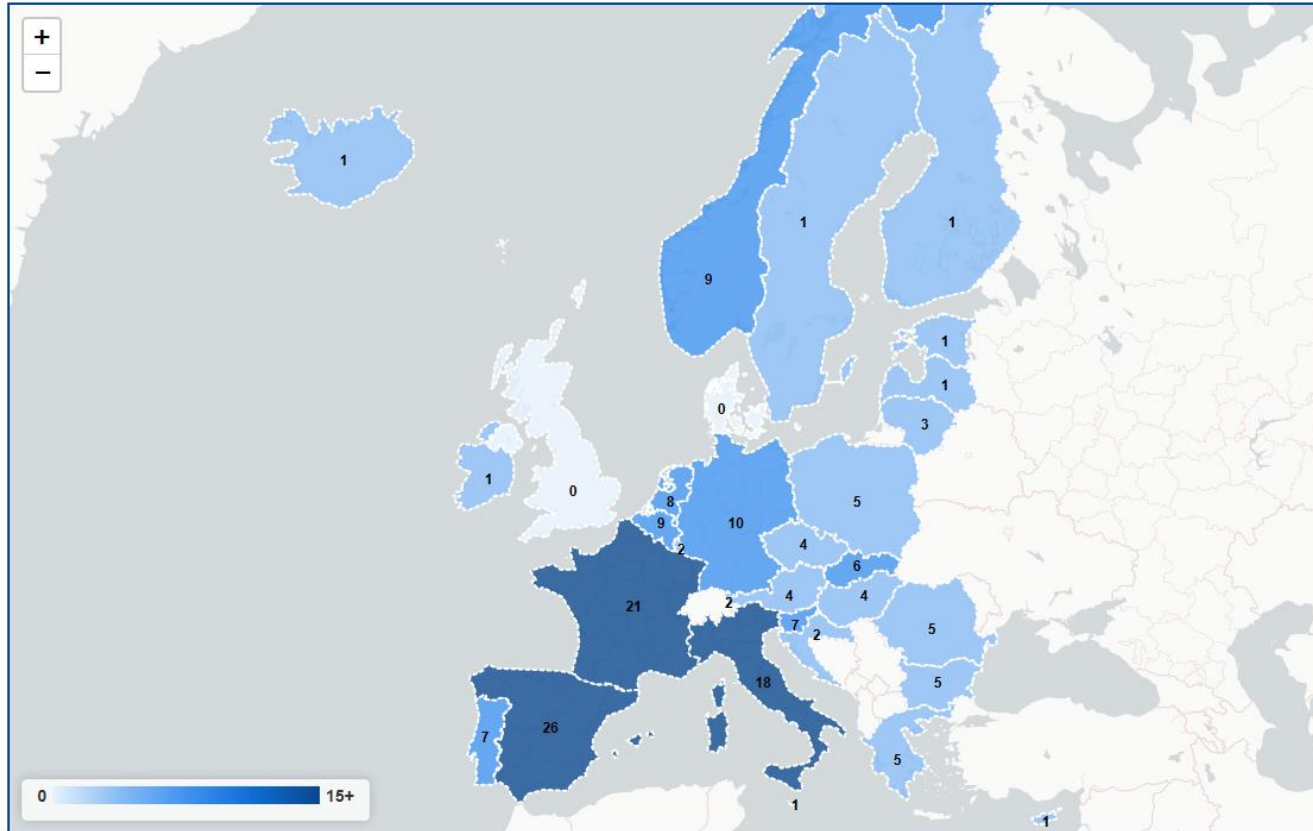
Trust services providers in Europe

All trust services providers - **268**



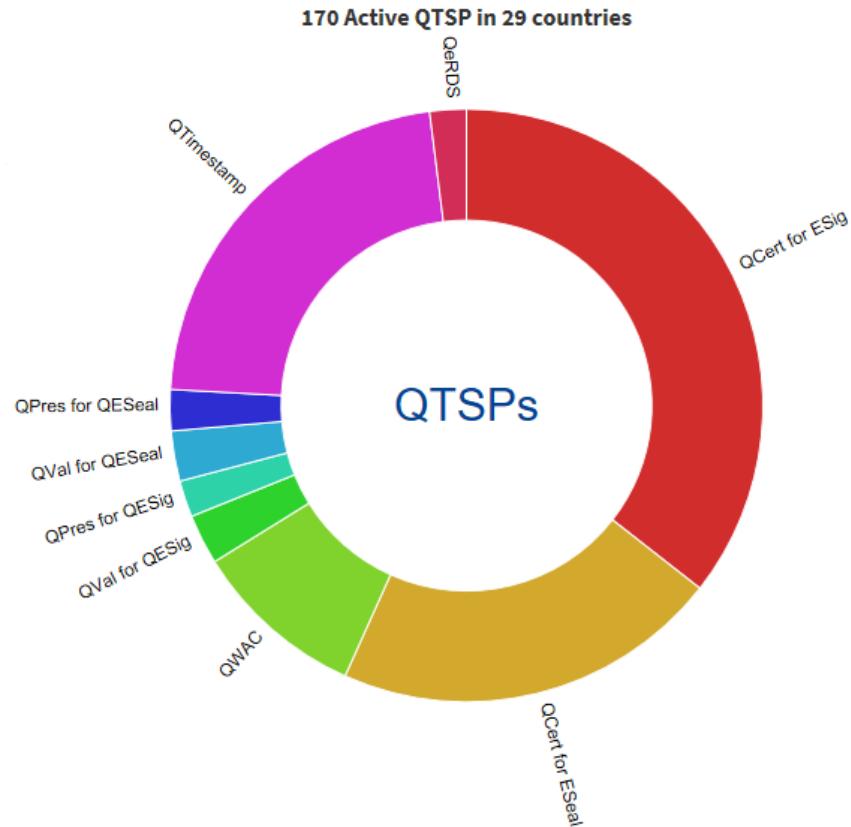
Trust services providers in Europe

Active qualified trust service providers only - **170**



Trust services providers in Europe

Active qualified trust service providers only



Where eIDAS plays a role

AMLD5 – Directive (EU) 2018/843

Published on OJEU on 19/06/2018

Payment Service Directive 2 – Directive (EU) 2015/2366

Commission Delegated Regulation (EU) 2018/389 – Regulatory Technical Standards for Strong Customer Authentication

Once-Only Principle cross-border

EU Regulation on Single Digital Gateway agreed on 24/05/2018

Digital on-boarding and portability of KYC

EC Expert Group on eID and remote KYC (2nd meeting held on 10 July 2018)
– jointly managed by CNECT, JUST and FISMA

Company law

Proposal to amend the Directive (EU) 2017/1132 adopted by EC on 25/04/2018 as regards the use of digital tools and processes in company law

Tackling online disinformation / Fighting fake news

COM(2018) 236 final adopted on 26/04/2018

GDPR compliance

Data minimisation; use of trusted attributes, credentials and entitlements (such as age verification, proof of residence, etc.)

Audiovisual Media Service Directive

Protection of minors / Age verification and parental consent

...



CEF Building Blocks

The building blocks of the Connecting Europe Facility promote the adoption of the same open standards and technical specifications, by the different sectors of the Union, for the most basic & common functionalities of any sectorial project/ platform.

These core commonalities will enable interoperability across borders and sectors.

Top Down
EU Law

eInvoicing
Directive



IDENTIFY with
eID



SIGN with
eSignature



EXCHANGE with
eDelivery



INVOICE with
eInvoicing



TRANSLATE with
eTranslation

Bottom Up

MS Large Scale Pilots

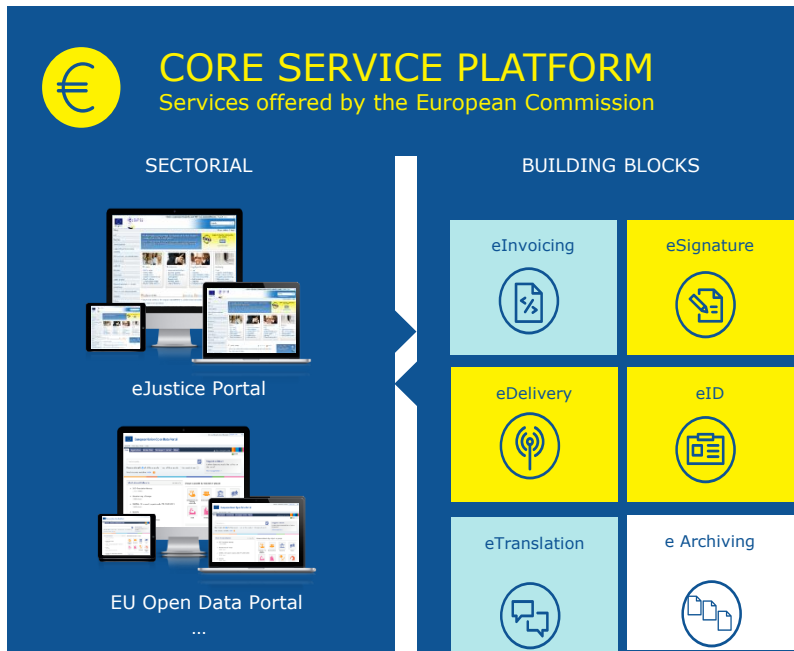
Large Scale Pilots (PEPPOL, STORK, etc.)

What does CEF Digital finance?

DIGITAL SERVICE INFRASTRUCTURES (DSIs)

Funding for the
EUROPEAN COMMISSION

Funding for the
MEMBER STATES



Building block DSIs provide basic functionality and are reusable by sector-specific DSIs

Grant Funding available !



Supported by the Connecting Europe Facility (CEF), the Call for Proposals (CEF-TC-2019-1) provides grant funding of up to €5 million to support the adoption of eID and eSignature in Europe.

<https://ec.europa.eu/inea/en/connecting-europe-facility/cef-telecom/apply-funding/2019-eid>

Supporting eIDAS adoption



eIDAS study on pilots for replication of multipliers: supporting the uptake of eIDAS services by SMEs, SMART 2016/0084

<https://ec.europa.eu/digital-single-market/en/eidas-smes>

<https://ec.europa.eu/digital-single-market/en/learn-about-eidas>



What's next

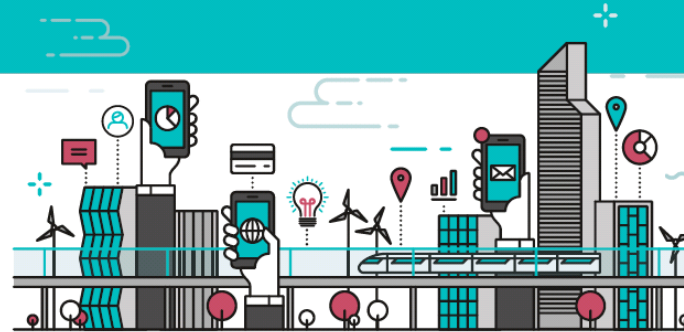
- Factors driving the evolution of electronic identity and trust services
 - Globalisation and connected society
 - Increasing demand for frictionless experiences
 - Increasing concerns about use of personal data
 - Increasing crowded and fragmented digital identity market
 - Growing dependency between public and private sectors
 - Increasing cybersecurity risks
 - Rise of exponential technology: cloud, DLT, IoT, AI, social media
- Trends
 - Mobile first
 - Biometrics: multimodal and behavioural
 - Analytics enabling real-time and continuous authentication
 - Blurring lines between the physical and the digital world – identity of things
 - Citizen-controlled data
 - Changing identity ecosystem

What's next

NEXT
GENERATION
INTERNET

AN INTERNET OF HUMAN VALUES

The overall mission of the Next Generation Internet Initiative is to **re-imagine and re-engineer the Internet** for the third millennium and beyond. We envision the Information age will be an era that brings out the best in all of us. We want to **enable human potential, mobility and creativity** at the largest possible scale – while dealing responsibly with our natural resources. In order to preserve and expand the European way of life, we **shape a value-centric, human and inclusive Internet for all.**



Resilient.

These important ambitions need a solid technical foundation to build on. The legendary robustness of the Internet must become actual reality in the Next Generation Internet. A massive global fleet of connected devices is on its way to enhance and control our homes, factories, offices and vehicles. Technology is embedded in concrete, circling in space and is increasingly entering the intimacy of our human bodies. **The Next Generation Internet has to be both highly adaptive and unrelentingly resilient.** Whatever companies or parts of the network go down by some natural or other disaster, the effects on the rest of us should be close to zero.

Trustworthy.

There is another essential dimension to trust, which lies above physical availability. **We need a transparent technological environment, that is completely trustworthy.** The architecture, governance and policies structure how entire societies and economies interact. By design it should protect free speech and private enterprise and much more. The Next Generation Internet is to be designed to avoid any bias or systematic abuse of global trust in the Internet. It shall be a true global commons, rising above international politics and competition. **It will guarantee the safety of citizens and strengthen the health and autonomy of our markets and societies across borders.**

Sustainable.

The enduring success of the Internet lies in permission-free innovation, openness and interoperability. The Next Generation Internet is set up to empower, to unlimit our choices. It fosters diversity and decentralisation, and grows the potential for disruptive innovation. This extends far beyond the technical realm. **The Next Generation Internet will achieve a sustainably open environment for our cultures and economies, celebrating our values and promoting creativity and well-being.**

Let's re-invent
Internet to
reach the full
human potential,
for all generations.

GET INVOLVED



What's next



EU BUDGET FOR THE FUTURE
#EUBudget #EURoad2Sibiu #FutureofEurope
6 June 2018

**INVESTING IN THE FUTURE
DIGITAL TRANSFORMATION 2021-2027**

WHY IS THIS A PRIORITY?

Digital transformation holds the key to unlocking future growth in Europe. Through new funding projects, the next long-term EU budget – the European Multiannual Financial Framework – will help to bridge the EU's digital investment gap for the 2021-2027 period.

WHAT'S NEW FOR 2021-2027?

The Digital Single Market strategy has put in place a robust framework, which must now be matched by an **equally robust investment programme** to make the most of many new opportunities digital transformation offers:

- Investments in digital will be much higher than before
- Focus on areas of public interest
- Reinforce several ongoing cooperation projects with the Member States

The Commission has created a **new Digital Europe programme** with an overall budget of **€9.2 billion** to shape and support the digital transformation of Europe's societies and economies. The programme will boost frontline investments in supercomputing, artificial intelligence, cybersecurity and advanced digital skills.

FIVE FOCUS AREAS UNDER DIGITAL EUROPE PROGRAMME:

- Supercomputing
- Artificial Intelligence
- Cybersecurity and Trust
- Advanced Digital Skills
- Ensuring the wide use of digital technologies across the economy and society

6 June 2018

Digital Europe Programme

- Aiming at the digital transformation of Europe's society and economy
- One fully dedicated programme in the EU budget reflecting the ever-increasing relevance of digital
- Main pillars of Digital Europe (overall budget €9.2 billion):
 - High Performance Computing (€2.7 billion)
 - Artificial intelligence (€2.5 billion)
 - Cybersecurity and **trust** (€2 billion)
 - Digital Skills (€0,7 billion)
 - **Digital Transformation and interoperability** (€1.3 billion)

For further information and feedback

Web page on eIDAS

<http://ec.europa.eu/digital-agenda/en/trust-services-and-eid>

eIDAS Observatory

<https://ec.europa.eu/futurium/en/eidas-observatory>

Text of eIDAS Regulation in all languages

<http://europa.eu/lux73KG>

Connecting Europe Facility – Catalogue of Building Blocks

<https://ec.europa.eu/cefdigital>

eIDAS twitter account
[@eID_EU](https://twitter.com/eID_EU)

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