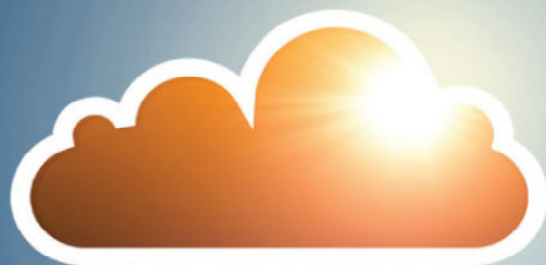


## Informatika v javni upravi 2014: "Izza oblaka sonce"



### E-UPRAVA NA RAVNI EU: KAJ JE TO ISA, CEF, E-SENS, eIDAS



*dr. Alenka Žužek Nemec*

*9. december 2014*

# Modernizacija javne uprave

*“pet od petih podjetij je mnenja, da si morajo javne uprave bolj prizadevati, da bodo njihove storitve bolj inovativne”*

Vir: 2012 Eurobarometer, analiza inovativnosti javnega sektorja in podjetij

# Pomen interoperabilnosti

"The modernisation of public administrations should continue ... Open data is an untapped resource with a huge potential ... **Interoperability** and the **re-use of public sector information** shall be promoted actively. "

*Extract from Council Conclusions, October 2013*

**74%** of the EU countries consider interoperability as a high priority in their political agenda

*Extract from the European Interoperability Strategy (EIS) implementation review, October 2012*

# Ekonomski učinki interoperabilnosti

Country	2010 GDP (USD Millions)	Impact
World	60,449,499	0.50%
Australia	368,736	
Belgium	469,374	\$2.347 billion
Brazil	2,087,890	
Canada	1,577,040	
China	5,926,612	
France	2,560,002	\$12.8 billion
Germany	3,280,530	\$16.4 billion
India	1,727,111	
Italy	2,051,412	\$10.26 billion
Japan	5,458,837	
Mexico	1,034,804	
Netherlands	779,356	\$3.9 billion
Russia	1,479,819	
<b>Slovenia</b>	<b>46,908</b>	<b>\$0,24 bilion</b>

Minutes to execute	Number of activities per year				
	10	15	20	25	30
5	0.04%	0.06%	0.08%	0.10%	0.13%
10	0.08%	0.13%	0.17%	0.21%	0.25%
15	0.13%	0.19%	0.25%	0.31%	0.38%
20	0.17%	0.25%	0.33%	0.42%	0.50%
25	0.21%	0.31%	0.42%	0.52%	0.63%
30	0.25%	0.38%	0.50%	0.63%	0.75%
35	0.29%	0.44%	0.58%	0.73%	0.88%
40	0.33%	0.50%	0.67%	0.83%	1.00%
45	0.38%	0.56%	0.75%	0.94%	1.13%
50	0.42%	0.63%	0.83%	1.04%	1.25%
55	0.46%	0.69%	0.92%	1.15%	1.38%
60	0.50%	0.75%	1.00%	1.25%	1.50%

(\* ) The Economic Impact of Interoperability, Microsoft research study

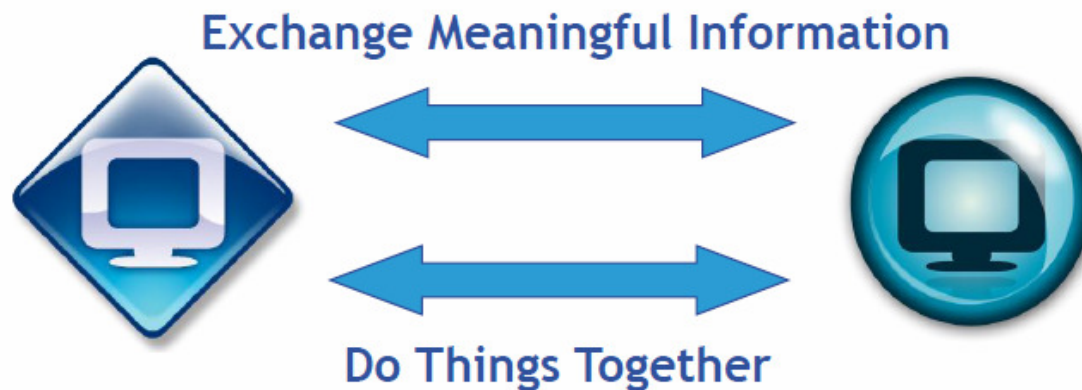
Zapravljanje časa, ko **“stojimo v vrsti”** je posledica **pomanjkanja interoperabilnosti**, ko državljeni ali podjetja pri poslovanju z javno upravo – negativen **vpliv na BDP**

# Modernizacija javne uprave skozi interoperabilnost

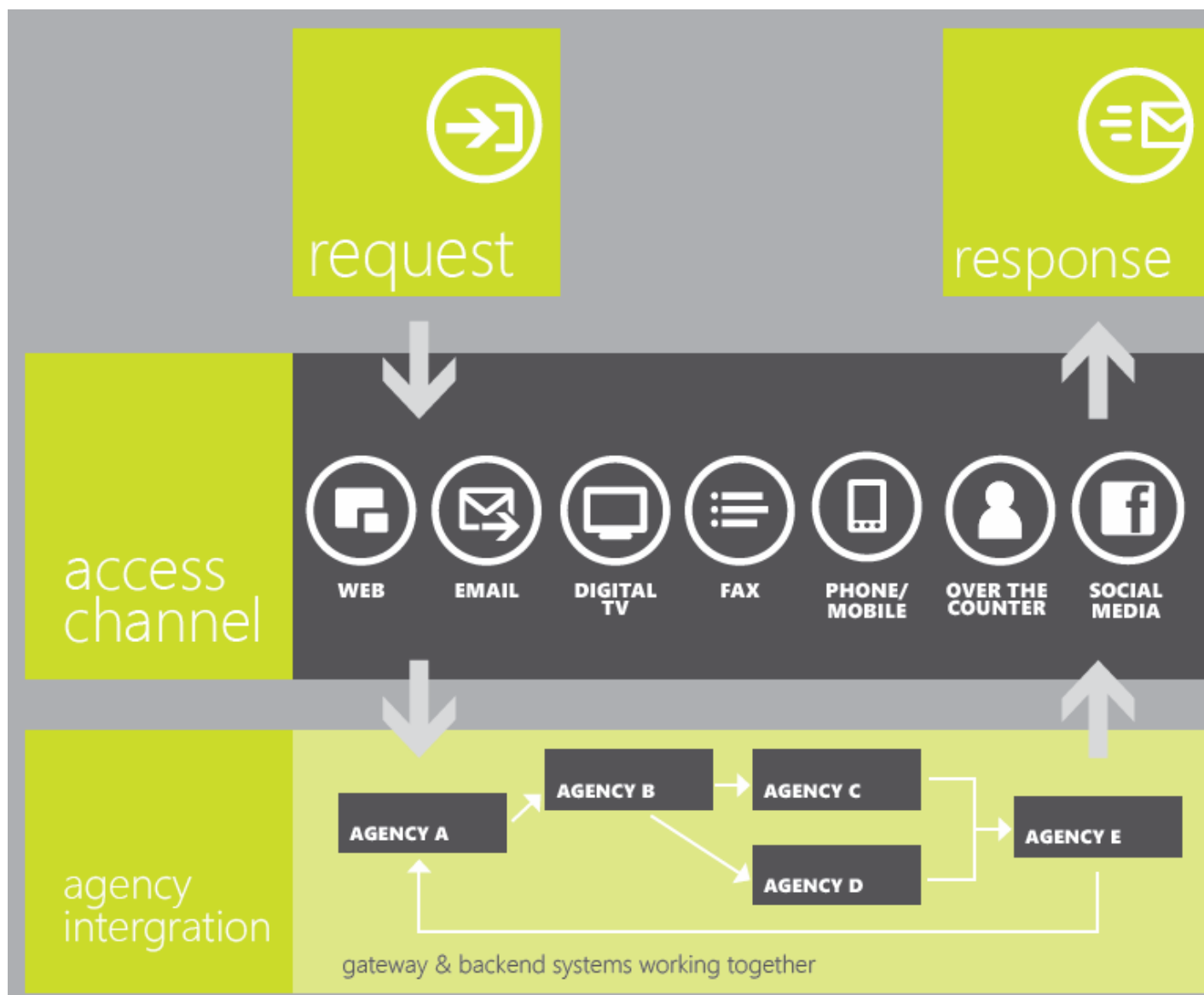
...  
proti učinkovitejšem in  
uspešnejšem delovanju  
javnega sektorja

- Razvoj sinergij med institucijami
- Izmenjava podatkov med sektorji
- Skupne storitve in rešitve
- Odprava “silosnih” rešitev (v mejah ministrstev)

**Ključna je interoperabilnost, skupne in ponovno uporabljive rešitve!**



# Kaj to pomeni za uporabnike, kaj za institucije javnega sektorja?



It's a

# Challenge



# Globalizacija, mobilnost

## Sodobni trendi

- Povečana mobilnost državljanov
  - Študij
  - Delo
  - Potovanja
- Poslovanje poslovnih subjektov je vedno bolj čezmejno
  - Podjetniki
  - Transport
  - Finančne storitve
- Regulatorna na ravni EU
  - e-Javna naročila
  - Storitvena direktiva
  - E-identitete in storitve zaupanja

## Ponudniki storitev v javnem in zasebnem sektorju morajo ...

- ... svoje storitve nuditi tudi uporabnikom iz drugih držav
  - Tuje e-identitete
  - Tuja podjetja
  - Tuje osebe, ki predstavljajo tuja podjetja
  - Priznavanje tujih diplom, dokumentov





It's a

# Challenge

Kar je majhna težava na nacionalni ravni, je samo še večja na ravni EU!

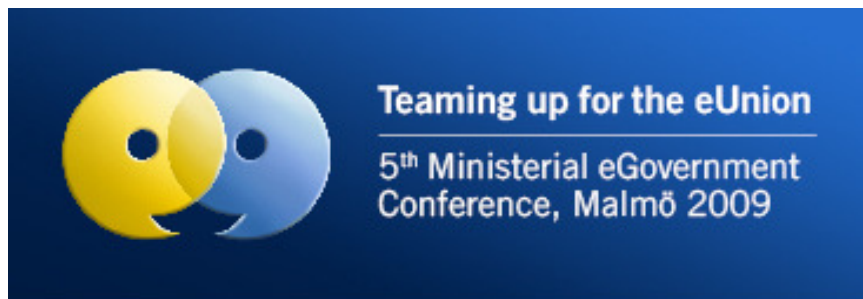
# STRATEŠKE USMERITVE NA RAVNI EU



**EVROPA 2020**



**Digitalna agenda, 2010**



**Ministrska deklaracija  
za e-upravo, 2009**

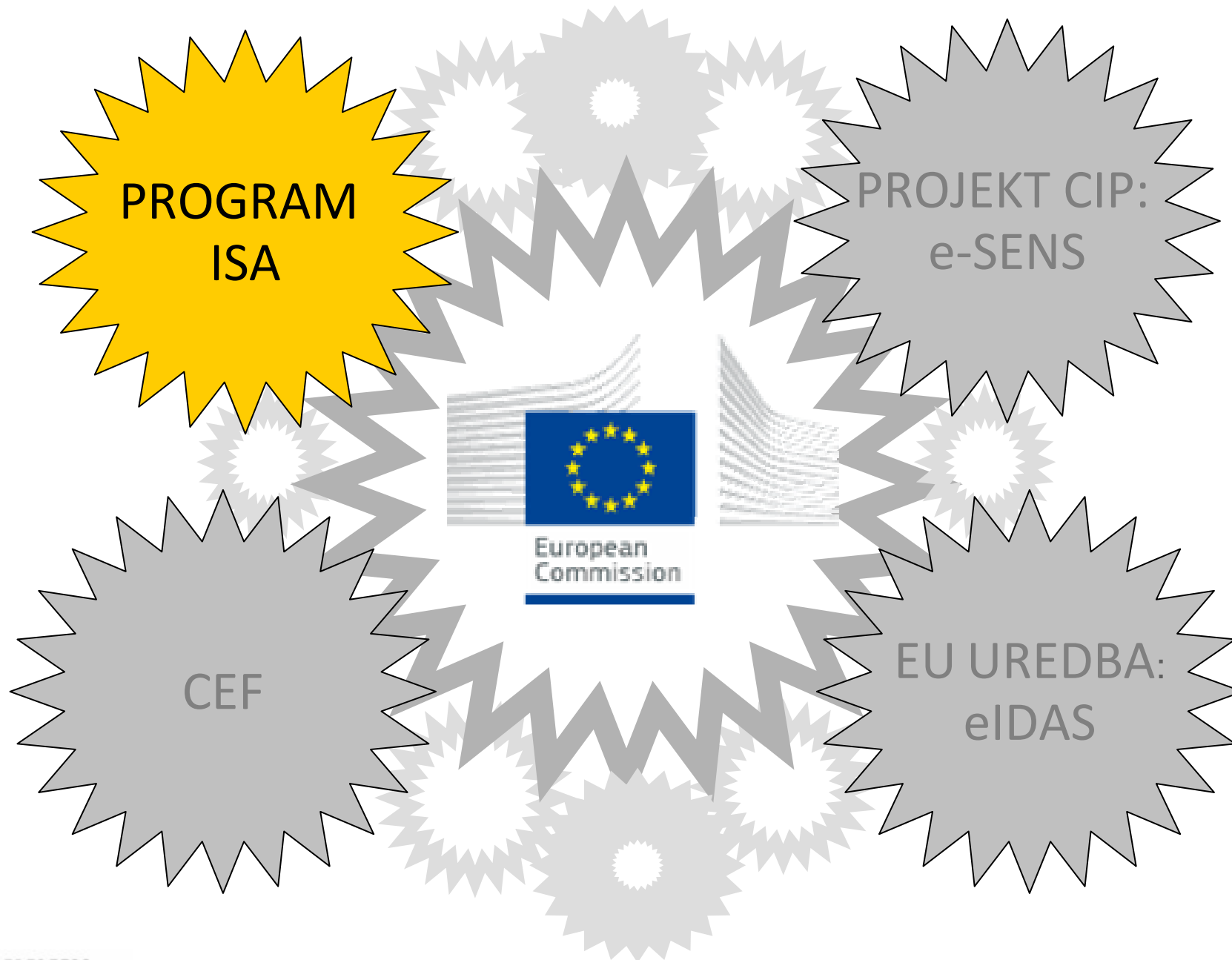


**EU Akcijski načrt, 2010**

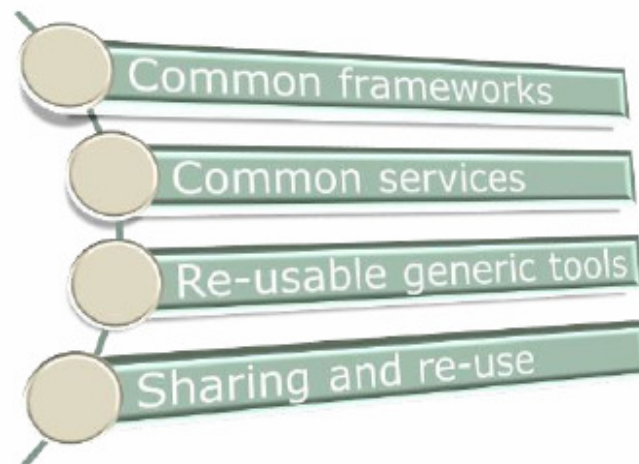
# EU UKREPI ZA INTEROPERABILNOST



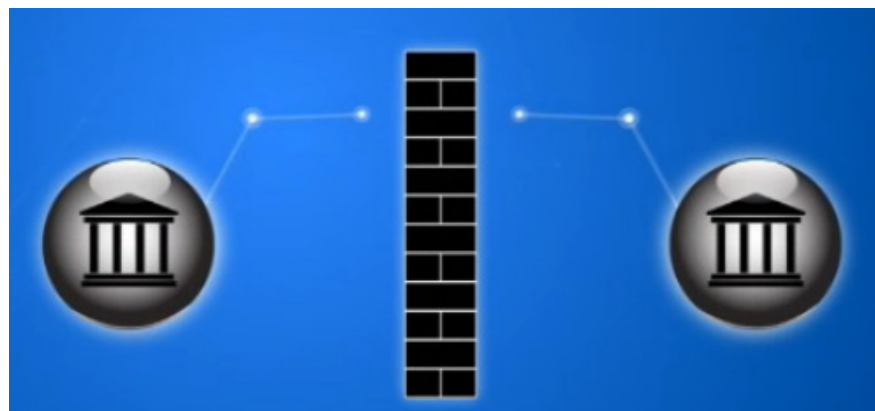
# EU UKREPI ZA INTEROPERABILNOST



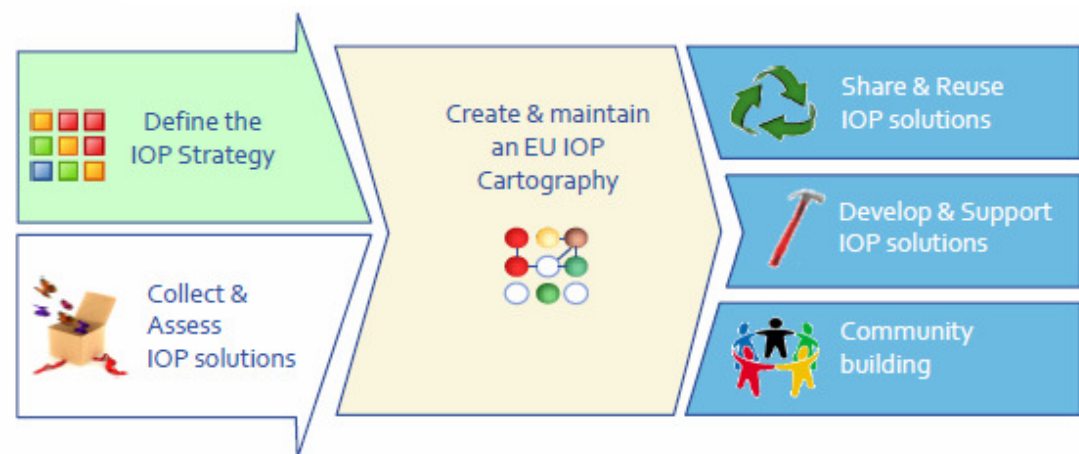
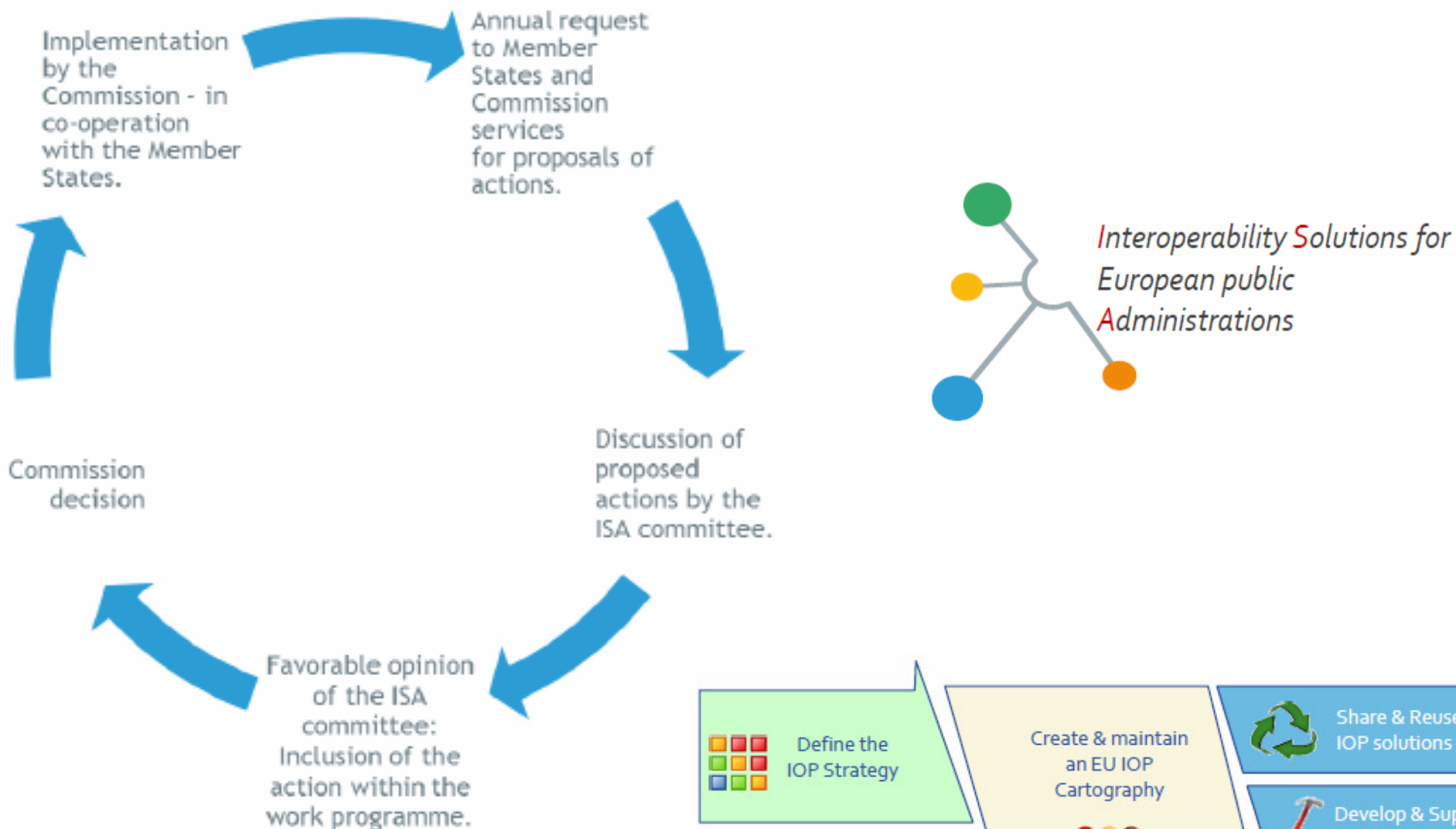
# Komitološki program ISA



ISA je pomemben program Evropske komisije za skupna prizadevanje javnih uprav držav članic EU za odpravo ovir, ki nastajajo pri čez-mejnem in čez-sektorskem poslovanju



# Način izvajanja ISA





# Strategija evropske interoperabilnost EIS

## Clusters of activities – Generic Strategic Considerations

### *Trusted information exchange*

- Semantic interoperability
- Information availability and usage
- Trust and privacy
- Catalogue of services

### *Interoperability architecture*

- Interoperability architecture
- Expertise support and methodologies

### *ICT implications of new legislation*

- National and cross-border sector-specific legislation sustainability

## Accompanying measures

Inter-  
operability  
Awareness

Sharing  
best  
practices  
using  
Collaboration  
platforms

## “Trusted information exchange”

Action Name	Services in Charge	Allocated Budget of the Current Year (in Euro)	Total Allocated Budget 2010-2015 (in Euro)
1.1 Promoting semantic interoperability amongst the European Union Member States	DIGIT	900000	4450000
1.2 Access to base registries	DIGIT	640000	1840000
1.3 Catalogue of basic services	DIGIT	200000	1200000
1.4 ECAS - STORK Integration	DIGIT.A	150000	1910000
1.5 STORK Sustainability	CNECT	250000	1740000
1.6 Common Infrastructure for Public Administrations	DIGIT	650000	2520000
1.7 e-PRIOR	DIGIT	1600000	8950000
1.8 Trusted Exchange Platform (E-TRUSTEX)	DIGIT	1600000	6500000
1.9 Supporting tools for TSL and e-signature creation/verification	MARKT	250000	1760000
1.10 Internal Market Information (IMI) system	MARKT	360000	3360000
1.11 Interoperable and Generic Notification Services (GENIS)	COMP	800000	2770000
1.12 Open Source Software for online collection of statements of support for European citizens' initiatives	DIGIT.B	450000	1690000
1.13 LEOS - Legislation Editing Open Software	SG	585000	1385000
1.14 Cross Sector SOLVIT	MARKT	Funding completed	1000000
1.15 Open Government Data	DIGIT	Funding completed	100000
1.16 Development of key IT components for the establishment of the Common Information Sharing Environment (CISE) for the surveillance of the EU maritime domain	MARE	240000	1540000
1.17 Reusable INSPIRE reference platform	JRC	700000	1550000
1.18 Federated Authorisation Across European Public Administrations	DIGIT.A	200000	740000
1.20 Application of EU law: provision of cross-sector communication and problem solving tools	SG.C	380000	780000

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1.11 Interoperable and Generic Notification Services (GEN)			
1.12 Open Source Software for online collection of statements of support for citizens' initiatives	DIGIT.B	450000	1050000
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## Veliko rešitev na področju semantike:





## “Trusted information exchange”

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### Promoting the take-up of pan-European electronic procurement



e-PRIOR electronic procurement platform

Action 1.7

## “Trusted information exchange”

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eSignature tools to support cross-border access to eServices for businesses



TSL and eSignature creation/verification tools  
Action 1.9

# “Trusted information exchange”

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1.13 LEOS - Legislation Editing Open Software			
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1.20 Application of EU law: provision of cross-sector communication and problem solving tools	SG.C	380000	780000

## Veliko rešitev na področju prostorskih podatkov, direktive INSPIRE

### Re-usable Inspire reference platform



ARE3NA

Action 1.17



# EIS sklop: “Interoperability architecture”

Action Name	Services in Charge	Allocated Budget of the Current Year (in Euro)	Total Allocated Budget 2010-2015 (in Euro)
2.1 European Interoperability Architecture (EIA)	DIGIT.B	185000	1335000
2.2 CAMSS - Common Assessment Method Standards and Specifications	DIGIT	130000	530000
2.4 Data Communication Network Service (sTESTA)	DIGIT.C	7410000	48260000
2.5 CIRCABC	DIGIT.A	500000	1813000
2.6 IPM - Interactive Policy Making	DIGIT	400000	1433000
2.7 Your Europe - Facilitating reuse of content from national portals	MARKT	Funding completed	700000
2.8 Machine Translation Service by the European Commission	DGT	400000	3530000
2.9 Document repository services for EU policy support	DIGIT.B	540000	2040000
2.10 Multi-sectorial crisis and business continuity services	DIGIT	Funding completed	400000
2.11 Promoting consistent EU e-procurement monitoring	MARKT	191000	882000
2.12 eHealth European Interoperability Framework	CNECT.H	Funding completed	400000
2.13 Establishment of a European Union Location Framework	JRC.H	625000	1350000
2.15 Interoperability Agreements on Electronic Document and Electronic File	DIGIT.B	Funding completed	200000

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2.2 CAMSS - Common Assessment Method Standards and Specifications	DIGIT	130000	530000
2.4 Data Communication Network Service (sTESTA)			
2.5 CIRCABC			
2.6 IPM - Interactive Policy Making			
2.7 Your Europe - Facilitating reuse of content from national portals			
2.8 Machine Translation Service by the European Commission			
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2.13 Establishment of a European Union Location Framework	JRC.H	625000	1350000
2.15 Interoperability Agreements on Electronic Document and Electronic File	DIGIT.B	Funding completed	200000

## Achieving a modern ICT standardisation policy



CAMSS – Common Assessment Method Standards and Specifications

Action 2.2

# EIS sklop: “Interoperability architecture”

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2.1 European Interoperability Architecture (EIA)	DIGIT.B	185000	1335000
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2.13 Establishment of a European Union Location Framework	JRC.H	625000	1350000
2.15 Interoperability Agreements on Electronic Document and Electronic File	DIGIT.B	Funding completed	200000

## Strengthening the EU's telecommunications backbone



Data communication network service - sTESTA

Action 2.4

# EIS sklop: “Interoperability architecture”

Action Name	Services in Charge	Allocated Budget of the Current Year (in Euro)	Total Allocated Budget 2010-2015 (in Euro)
2.1 European Interoperability Architecture (EIA)	DIGIT.B	185000	1335000
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2.5 CIRCABC			
2.6 IPM - Interactive Policy Making			
2.7 Your Europe - Facilitating reuse of content from national portals			
2.8 Machine Translation Service by the European Commission			
2.9 Document repository services for EU policy support			
2.10 Multi-sectorial crisis and business continuity services			
2.11 Promoting consistent EU e-procurement monitoring	MARKT	191000	882000
2.12 eHealth European Interoperability Framework	CNECT.H	Funding completed	400000
2.13 Establishment of a European Union Location Framework	JRC.H	625000	1350000
2.15 Interoperability Agreements on Electronic Document and Electronic File	DIGIT.B	Funding completed	200000

 **Continual support and service improvements for online communities**



CIRCABC - Communication and Information Resource Centre for Administrations, Businesses and Citizens

Action 2.5

## “accompanying measure, ICT implications of new legislation”

Action Name	Services in Charge	Allocated Budget of the Current Year (in Euro)	Total Allocated Budget 2010-2015 (in Euro)
3.1 Assessment of ICT implications of EU legislation	DIGIT	150000	1200000
4.1.1 Communication Activities	DIGIT.B	550000	4300000
4.1.2 Interoperability Maturity Model	DIGIT	100000	500000
4.2.1 Integrated Collaborative Platform - Joinup	DIGIT.A	550000	2543000
4.2.2 Community building and effective use of the collaborative platforms	DIGIT	600000	3850000
4.2.3 National Interoperability Framework Observatory (NIFO)	DIGIT.01	270000	895000
4.2.4 European Federated Interoperability Repository (EFIR)	DIGIT	290000	810000
4.2.5 Sharing and reuse strategy	DIGIT.B	50000	400000
4.2.6 Interoperable test bed	DIGIT	100000	150000
5.2 EIS Governance Support	DIGIT.B	200000	1000000

## “accompanying measure, ICT implications of new legislation”

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4.2.5 Sharing and reuse strategy	DIGIT.B	50000	400000
4.2.6 Interoperable test bed	DIGIT	100000	150000
5.2 EIS Governance Support	DIGIT.B	200000	1000000

 **Contributing to efficient implementation of EU law**



Assessment of ICT implications of EU legislation

Action 3.1



## “accompanying measure, ICT implications of new legislation”

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4.2.2 Community building and effective use of the collaborative platform			
4.2.3 National Interoperability Framework Observatory (NIFO)			
4.2.4 European Federated Interoperability Repository (EFIR)			
4.2.5 Sharing and reuse strategy			
4.2.6 Interoperable test bed	DIGIT	100000	150000
5.2 EIS Governance Support	DIGIT.B	200000	1000000

 **Bringing together the eGovernment platforms**



Integrated Collaborative platform - Joinup

Action 4.2.1

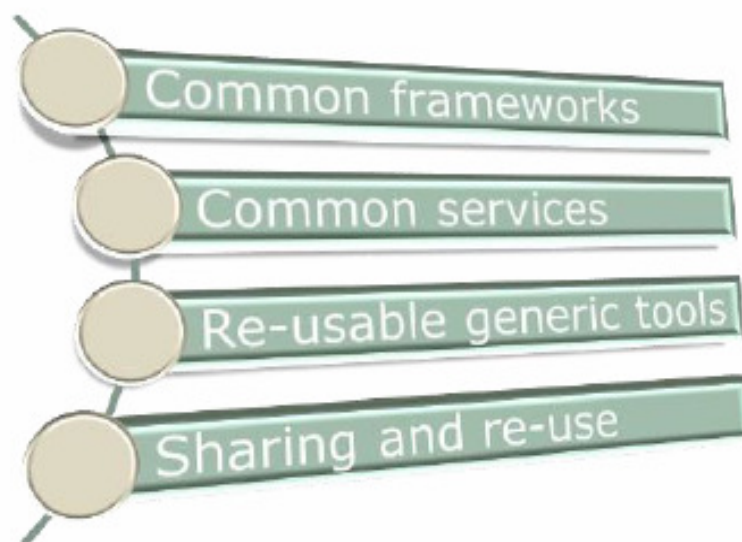
## “accompanying measure, ICT implications of new legislation”

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4.2.3 National Interoperability Framework Observatory (NIFO)			
4.2.4 European Federated Interoperability Repository (EFIR)			
4.2.5 Sharing and reuse strategy			
4.2.6 Interoperable test bed			
5.2 EIS Governance Support			

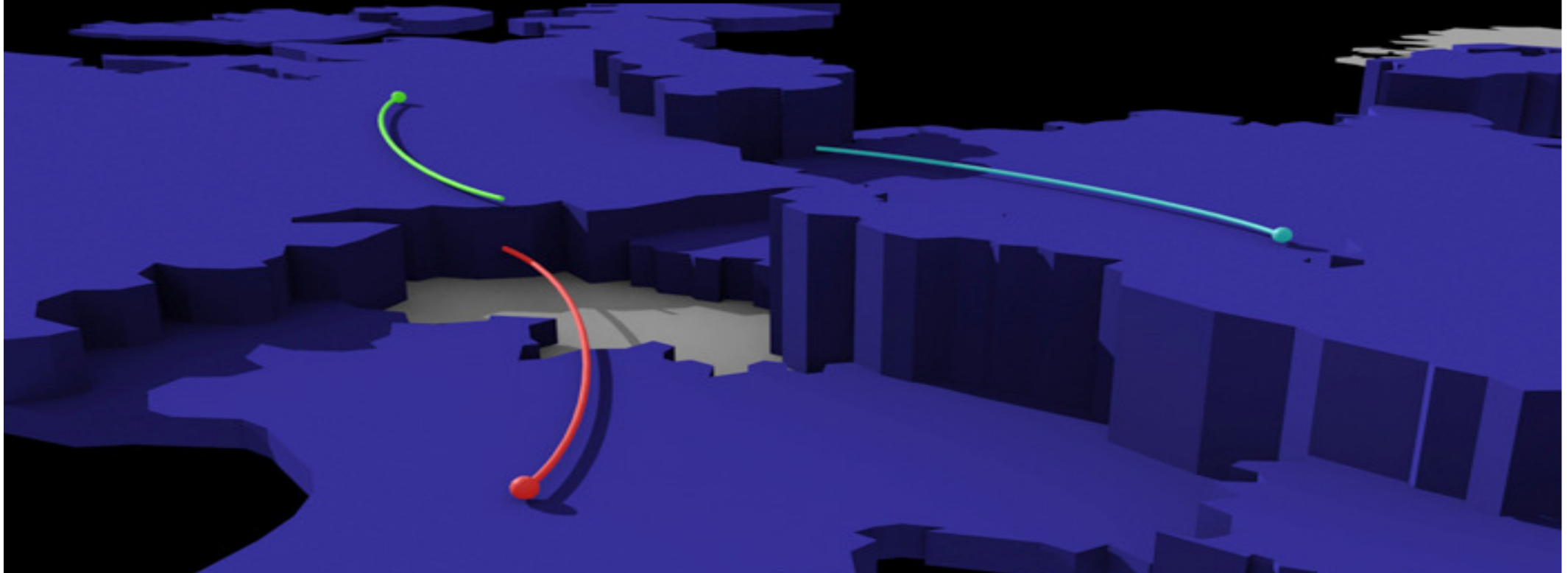


# Priložnosti za različne deležnike

- Vse objavljeno na straneh ISA, platformi Joinup
- Razvojna IT podjetja – uporaba odprtih ISA rešitev
- Institucije Evropske komisije
- Javna uprava



# Aktivnejša vključenost držav članic!

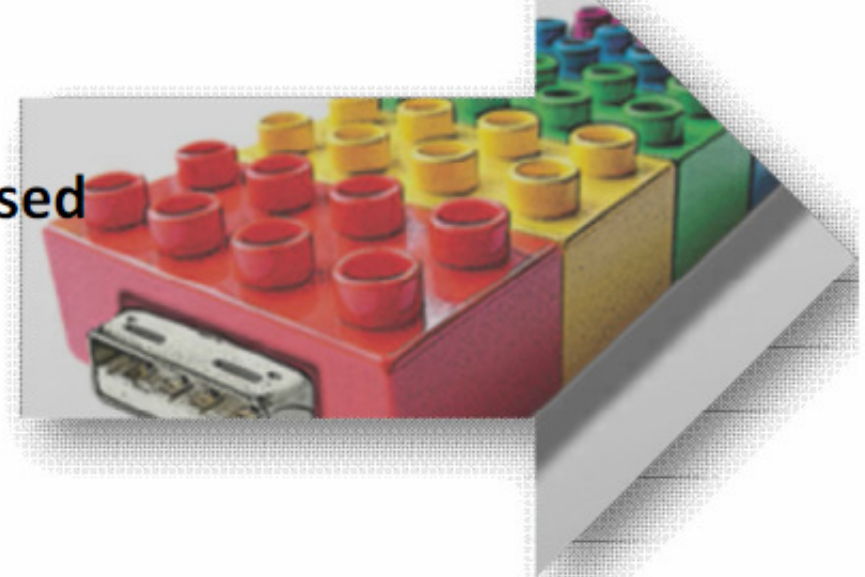


eIdentitete

ePodpis



Building blocks are used  
across projects



eVročanje

eDokumenti

eRačuni

# Program za konkurenčnost in inovacije 2007 - 2013

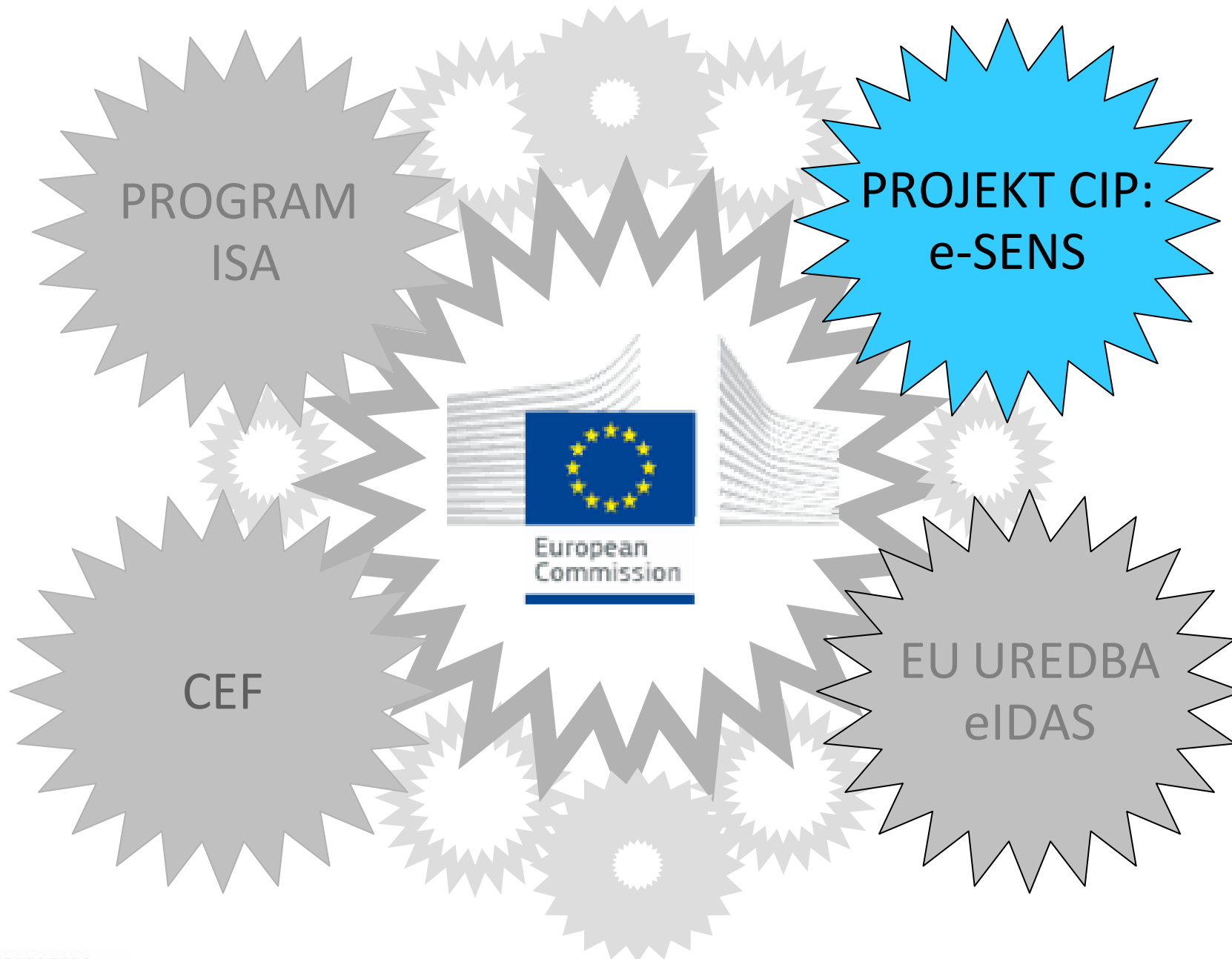
IKT: ~730 mil€

Piloti A: 137 mil €





# EU UKREPI ZA INTEROPERABILNOST



# Partnerji v projektu



*moving  
services  
forward.eu*

## e Institucije javne uprave, agencije, podjetja iz 20 držav

- Austria
- Czech Republic
- Denmark
- Estonia
- France
- Germany
- Greece
- Ireland
- Italy
- Luxembourg
- Netherlands
- Norway
- Poland
- Portugal
- Romania
- Slovakia
- Slovenia
- Spain
- Sweden
- Turkey



# Osnovni podatki projekta

- Program za konkurenčnost in inovacije – CIP
- Trajanje: april 2013 – marec 2016
- Proračun projekta: 27,4 M€
- Sofinanciranje s strani Evropske komisije: 50%
  
- Sodelovanje Slovenije:
  - Ministrstvo za javno upravo – vodja nacionalnega konzorcija
  - Institut Jožef Stefan
  - SETCCE
  - Ministrstvo za zdravje – izstop iz projekta



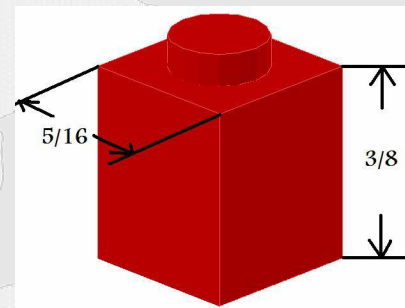
## KONSOLIDACIJA GRADNIKOVA

- eID
- eSignature
- eDocument
- eDelivery
- Trust Services
- Non-Repudiation
- Semantics
- Processes
- Attribute provider
- Traceability

### SAT - Solution Architecture Templates



### ABB - Architectural Building Blocks



# Dokaz delovanja – piloti



*moving  
services  
forward.eu*





# Dokaz delovanja – piloti



*moving  
services  
forward.eu*

## e-Procurement



## Business Lifecycle



## e-Justice



## e-Health

## Prednosti za javno upravo:

- Dostop do gradnikov
- Stabilnost in temelji pan-evropske interoperabilnosti
- Pomoč pri pripravi specifikacij za IT naročila
- Harmonizacija rešitev z izmenjavo dobrih praks in izkušenj

## Prednosti za podjetja:

- Stabilnost prinaša možnosti za lažje planiranje in investiranje
- Poslovna priložnost za stranke
- Odprtost za nove modele
- Prostor za inovativnost

# Novi instrument CEF (IPE, Instrument za povezovanje Evrope)

## 2007 - 2013



**cip** competitiveness and innovation  
framework programme  
2007-2013



## 2014 - 2020

Celoten proračun €33.24 milijard €:  
1 milijarda € za digitalne storitve



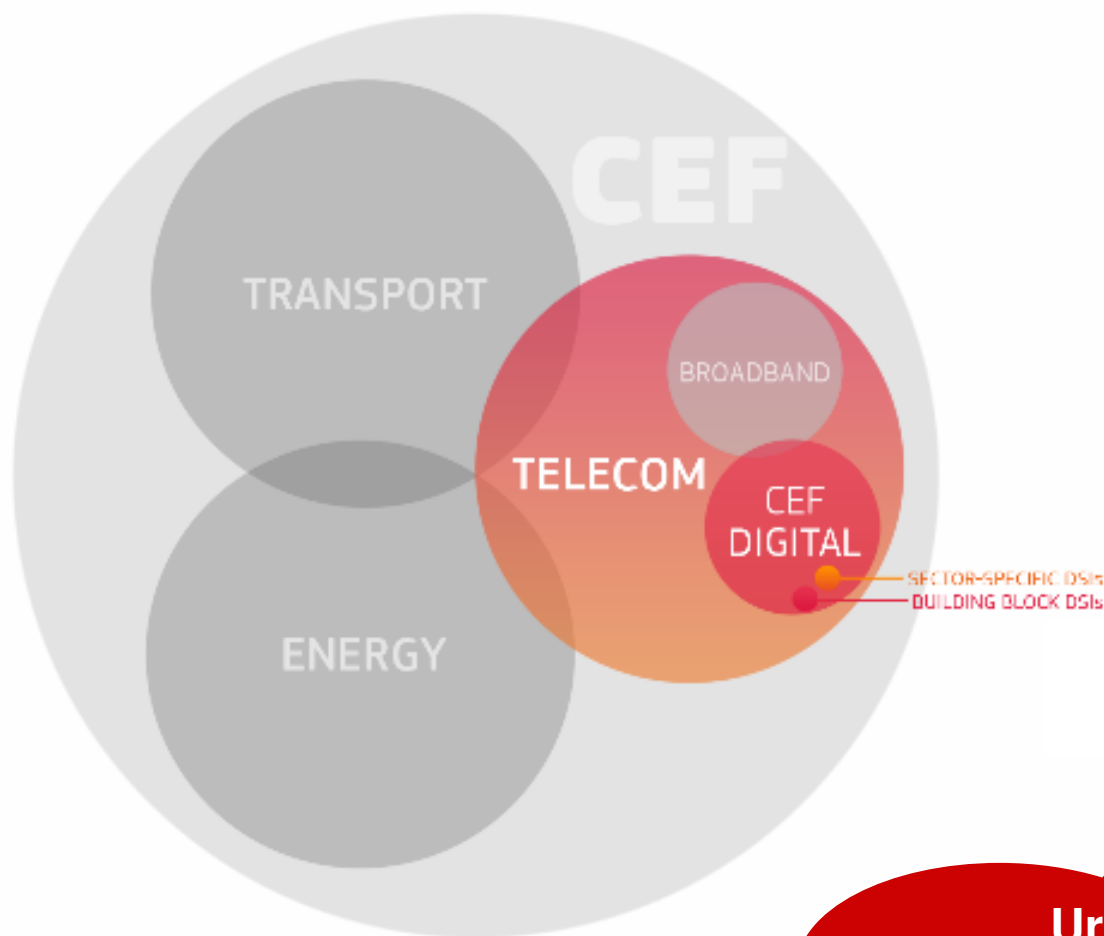
## CEF - Connecting Europe Facility



# EU UKREPI ZA INTEROPERABILNOST



# CEF telekomunikacijska infrastruktura



1 milijarda € za podporo razvoja in delovanja **Digitalnega notranjega trga** s podporo:

- Širokopasovnih omrežij (15% sredstev)
- Digitalne infrastrukturne storitve (DSI, Digital Service Infrastructures) za vzpostavitev EU interoperabilnih storitev za državljane, podjetja in javno upravo

**Uresničevanje vizije:**

**privzeto digitalno (digital by default)**

**privzeto čezmejne (cross-border by default)**



## 1. Ponovno uporabljivi gradniki DSI kot ključna funkcionalnost sektorskih DSI:

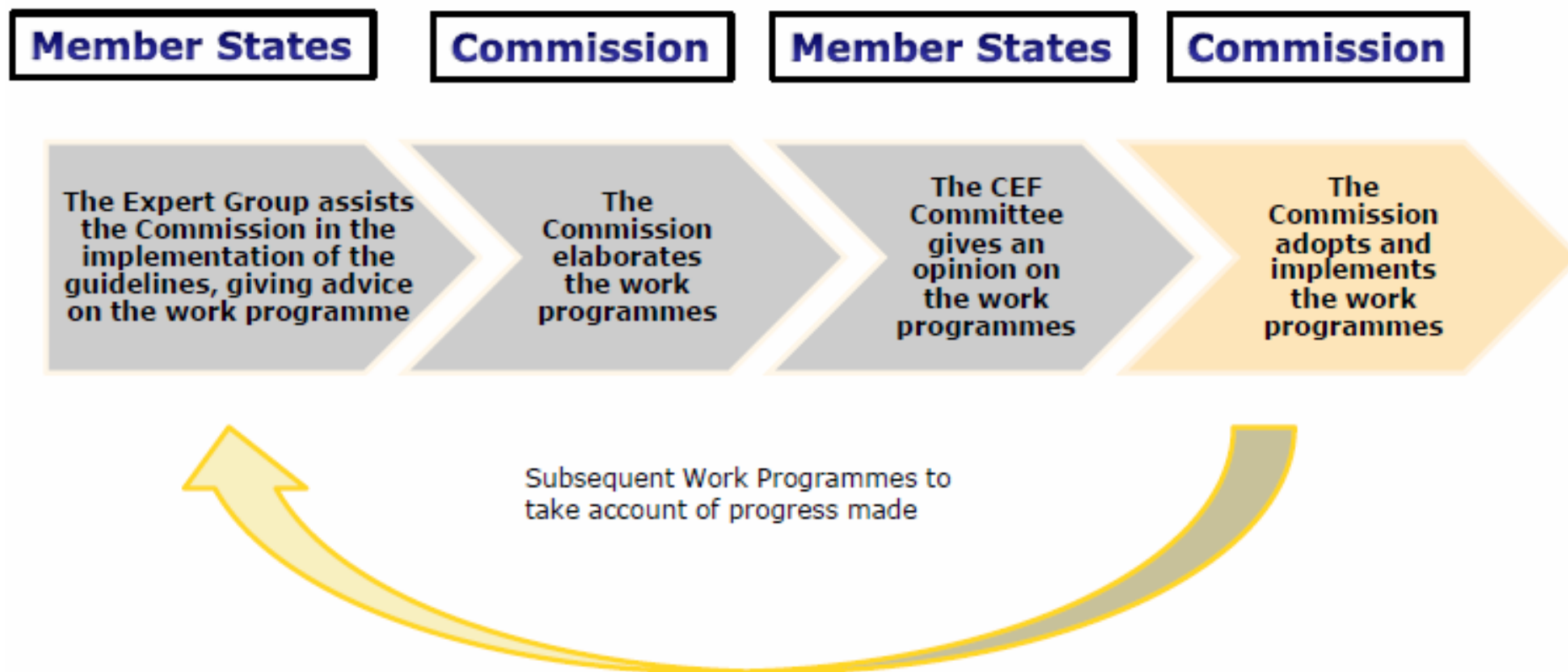
Primeri: interoperabilnost e-identitete, e-podpis, e-vročanje, avtomatsko prevajanje, ...

## 2. Sektorsko specifični DS interoperabilnih storitev podjetja in javno upravo

Primeri: e-javnost, e-zdravje, odprti podatki, ... za poslovne subjekte, kriptovaluta, visčina, varni internet za ot

Podobno kot





CEF – delovni program:

<http://ec.europa.eu/digital-agenda/en/connecting-europe-facility#programme-implementation>

CEF – razpisi:

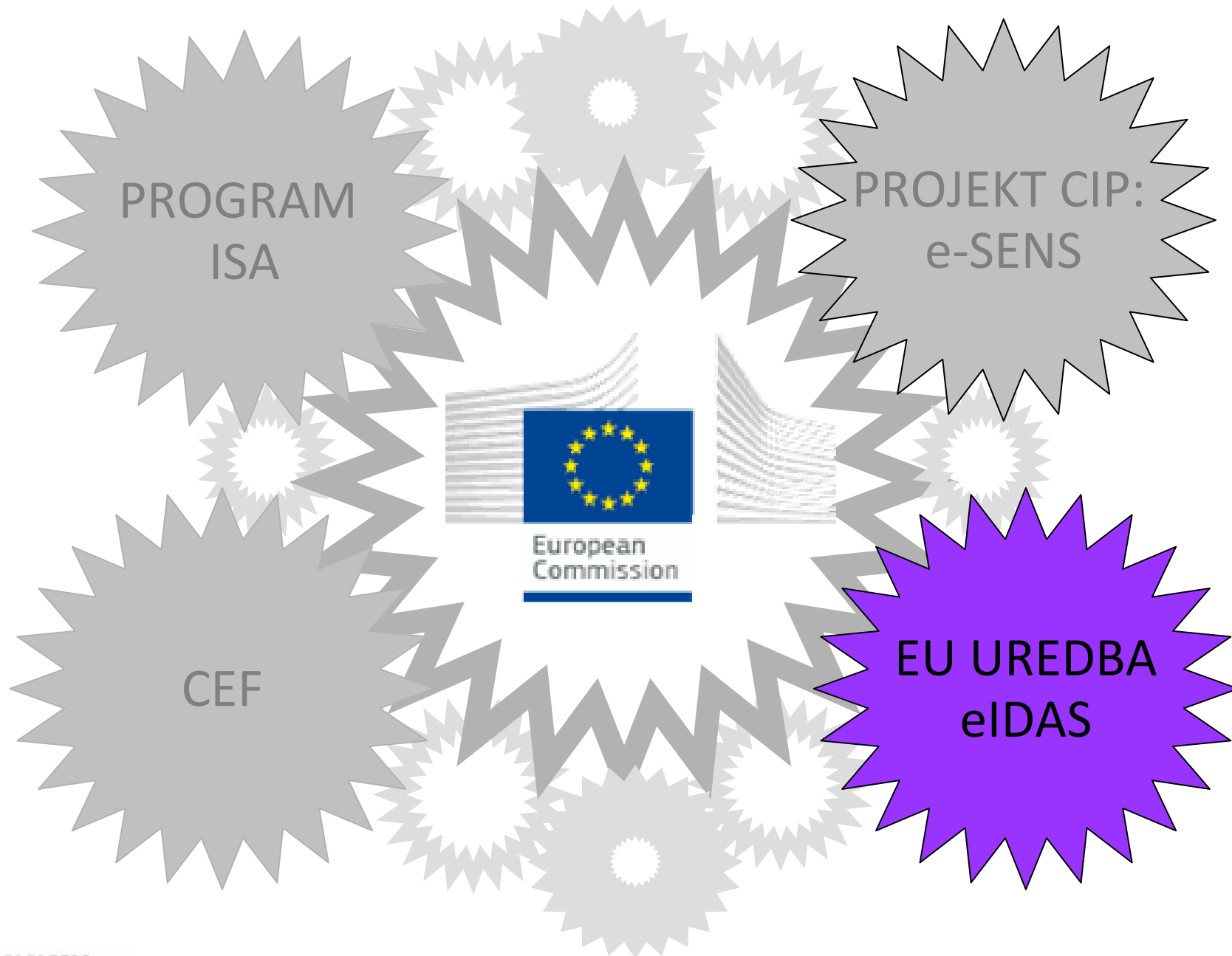
<http://inea.ec.europa.eu/en/cef/cef.htm>

# CEF Community:

<https://joinup.ec.europa.eu/community/cef/home>



# EU UKREPI ZA INTEROPERABILNOST



# Uredba (EU) št. 910/2014 Evropskega parlamenta in Sveta o elektronski identifikaciji in storitvah zaupanja za elektronske transakcije na notranjem trgu in o razveljavitvi Direktive 1999/93/ES - eIDAS

***Pristojna institucija***  
***Ministrstvo za izobraževanje, znanost in šport***  
***Direktorat za informacijsko družbo***

Predstavitev na IJU 2014, 8.12.2014

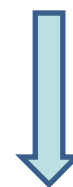


# Zakaj eIDAS

- Odsotnost pravne varnosti zaradi različnih nacionalnih določb, ki izhajajo iz različnih razlag Direktive o elektronskem podpisu.
- Neenotna uporaba tehničnih standardov.
- Ni pravnega okvira za vzajemno priznavanje e-identifikacij.



- Pomanjkanje zaupanja, predvsem zaradi občutka, da je pravna varnost pomanjkljiva.
- Pomanjkanje interoperabilnosti.



- Potrošniki, podjetja in javni organi oklevajo izvajanju elektronskih transakcij in sprejemanju novih storitev.

*VIR: Ministrstvo za izobraževanje, znanost in šport  
Direktorat za informacijsko družbo*

# Kaj prinaša eIDAS

- Postavlja minimalna **skupna pravila**, ki naj zagotovijo, da bodo **sredstva elektronske identifikacije** in elektronske avtentikacije, ki omogočajo dostop do javnih storitev na nacionalni ravni, **vzajemno priznana** in sprejeta po vsej EU.
- **Razširja pravni okvir** za elektronski podpis in zajema tudi druge storitve zaupanja.
- Sistem akreditacije nadomešča s **sistemom poostrelega nadzora**.
- Določa varnostne **zahteve in odgovornost** vseh ponudnikov storitev zaupanja.

*VIR: Ministrstvo za izobraževanje, znanost in šport  
Direktorat za informacijsko družbo*



*Hvala za vašo pozornost !*

Alenka.Zuzek@gov.si