



# ECSEL ITALY

## Workshop on Innovation

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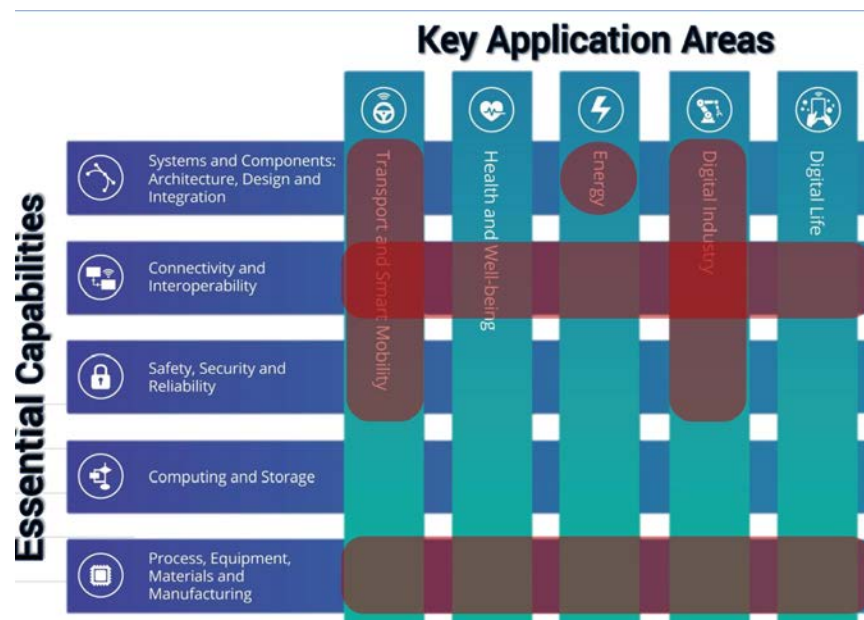


# What is ECSEL-JU?

**ECSEL is the largest European funding program for Microelectronics, Cyber Physical and Smart Systems Integration.**

- Avg Annual Budget (2014-20): 170 MEUR JU, 200 MEUR from MS.

Electronic components and systems (ECS) are a pervasive Key Enabling Technology, impacting all industrial markets and almost all aspects of life. A smartphone, a modern car, energy grid, smart city, cybersecurity, smart domotics: “smart everything” is based on integrating semiconductor chips running embedded software.



With respect to H2020:

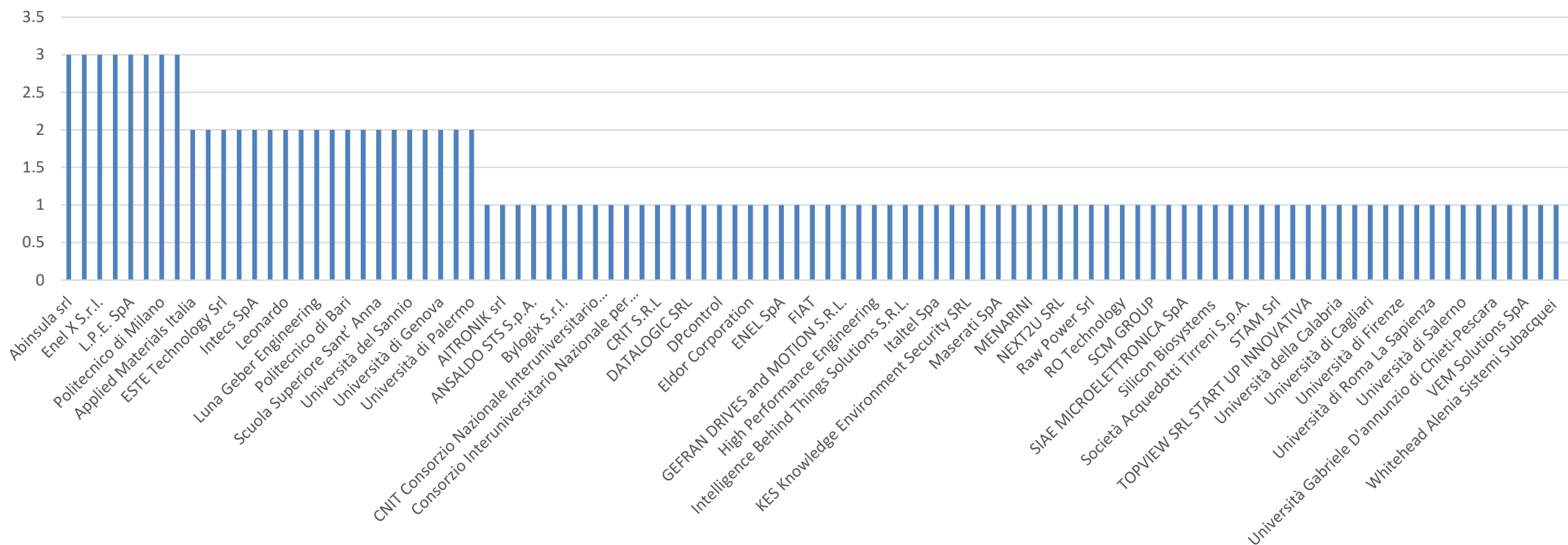
- More application & value-chain oriented.
- Push prototypes and pilot lines.
- Large projects in budget and n. of participants.
- Combines European, national and regional funds.
- Success rate around 30%.



# 116 Italian Beneficiaries joined 55 Projects

## 98 beneficiaries participates to $\leq 3$ projects

ITA:  $\leq 3$  projects per beneficiary ECSEL 2014-2020





# ECSEL 2014-2020

## 38 RIA projects with Italian participation

AITWILIGHT

x	RIA	3Ccar	RIA	HiPERFORM
	RIA	5G_GaN2	RIA	I-MECH
	RIA	ADACORSA	RIA	IMOCO4.E
	RIA	ADMONT	RIA	MANTIS
	RIA	AFarCloud	RIA	MegaMaRt2
	RIA	AI4CSM	RIA	NewControl
	RIA	AI4DI	RIA	NextPerception
	RIA	AIDOaRt	RIA	PowerBase
	RIA	AMASS	RIA	Progressus
	RIA	AQUAS	RIA	PRYSTINE
	RIA	ASTONISH	RIA	RobustSENSE
	RIA	AutoDrive	RIA	SafeCOP
	RIA	BRAINE	RIA	SECRETAS
	RIA	COMP4DRONES	RIA	SWARMs
	RIA	CONNECT	RIA	TARANTO
	RIA	FITOPTIVIS	RIA	Ultimate GaN
	RIA	FRACTAL	RIA	VALU3S
	RIA	HELIAUS ??	RIA	WInSiC4AP
RIA	HiEFFICIENT	RIA	YESvGaN	



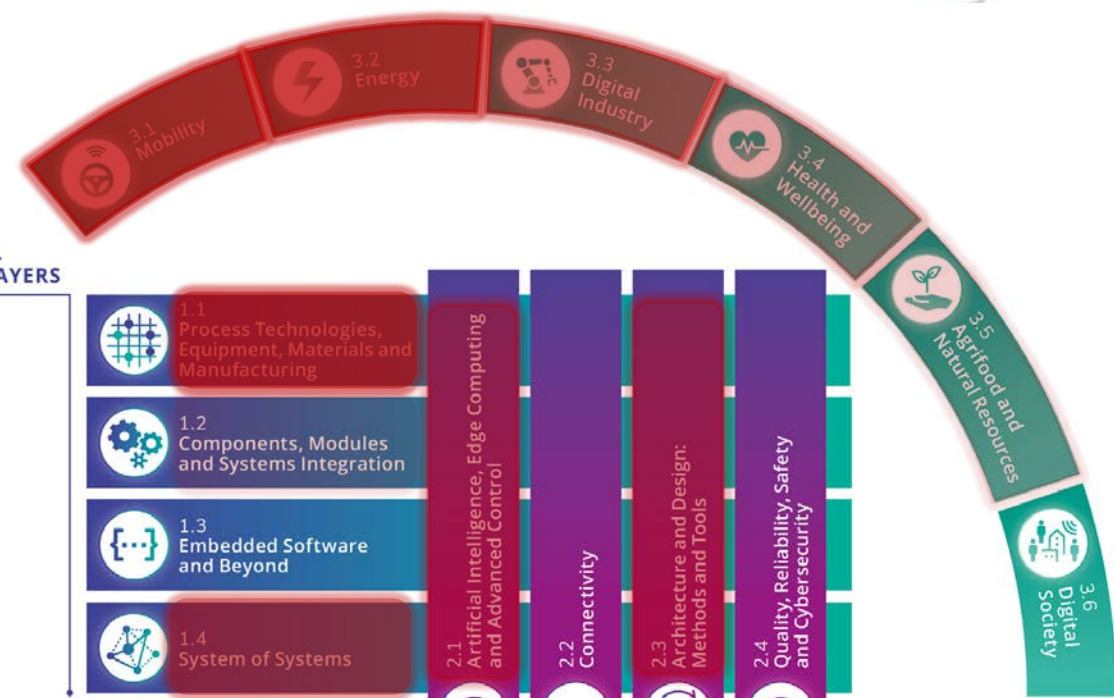
# ECSEL 2014-2020

## 17 IA projects with Italian participation

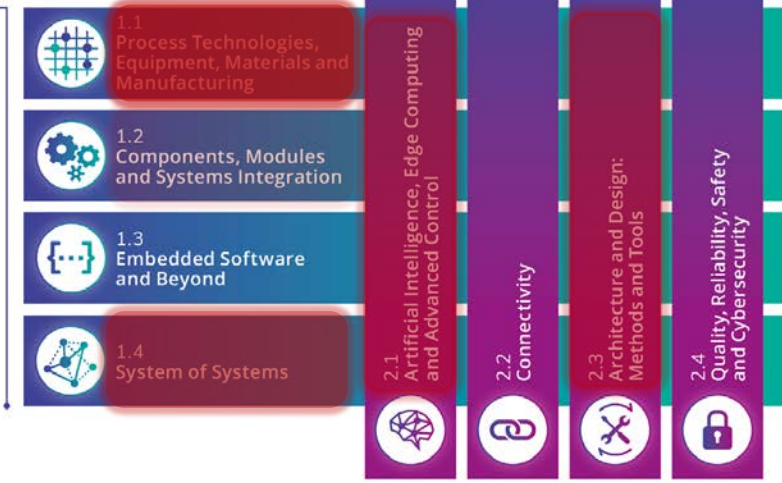
x	IA	Arrowhead Tools	ADMONT
	IA	CHARM	
	IA	CPS4EU	
	IA	ENABLE-S3	IDEV40
	IA	Energy ECS	
	IA	GaN4AP	
	IA	InSecTT	
	IA	iRel40	POSITION II POWERBASE
	IA	MADEin4	
	IA	Moore4Medical	
	IA	Productive4.0	
	IA	R2POWER300	
	IA	R3-PowerUP	
	IA	REACTION	
	IA	SemI40	
	IA	StorAlge	
	IA	TRANSFORM	



# Italian Focus Areas

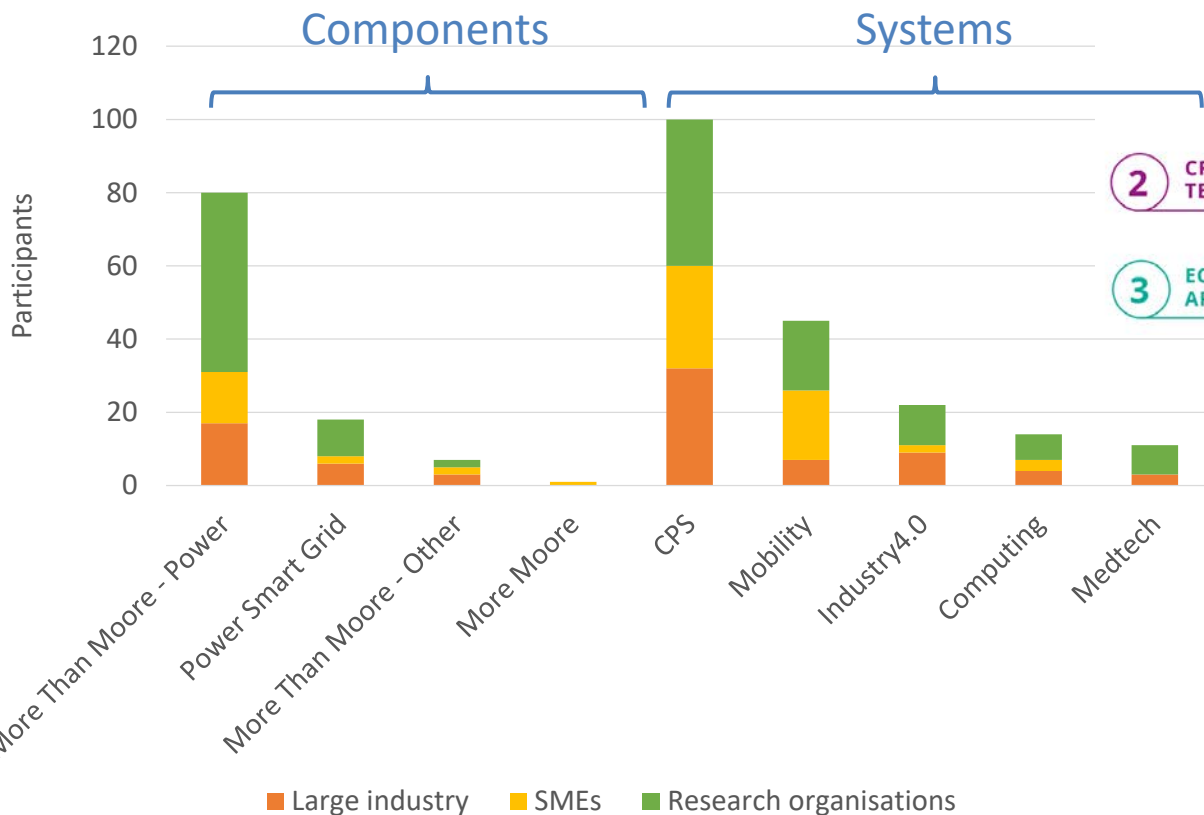


## 1 FOUNDATIONAL TECHNOLOGY LAYERS



## 2 CROSS-SECTIONAL TECHNOLOGIES

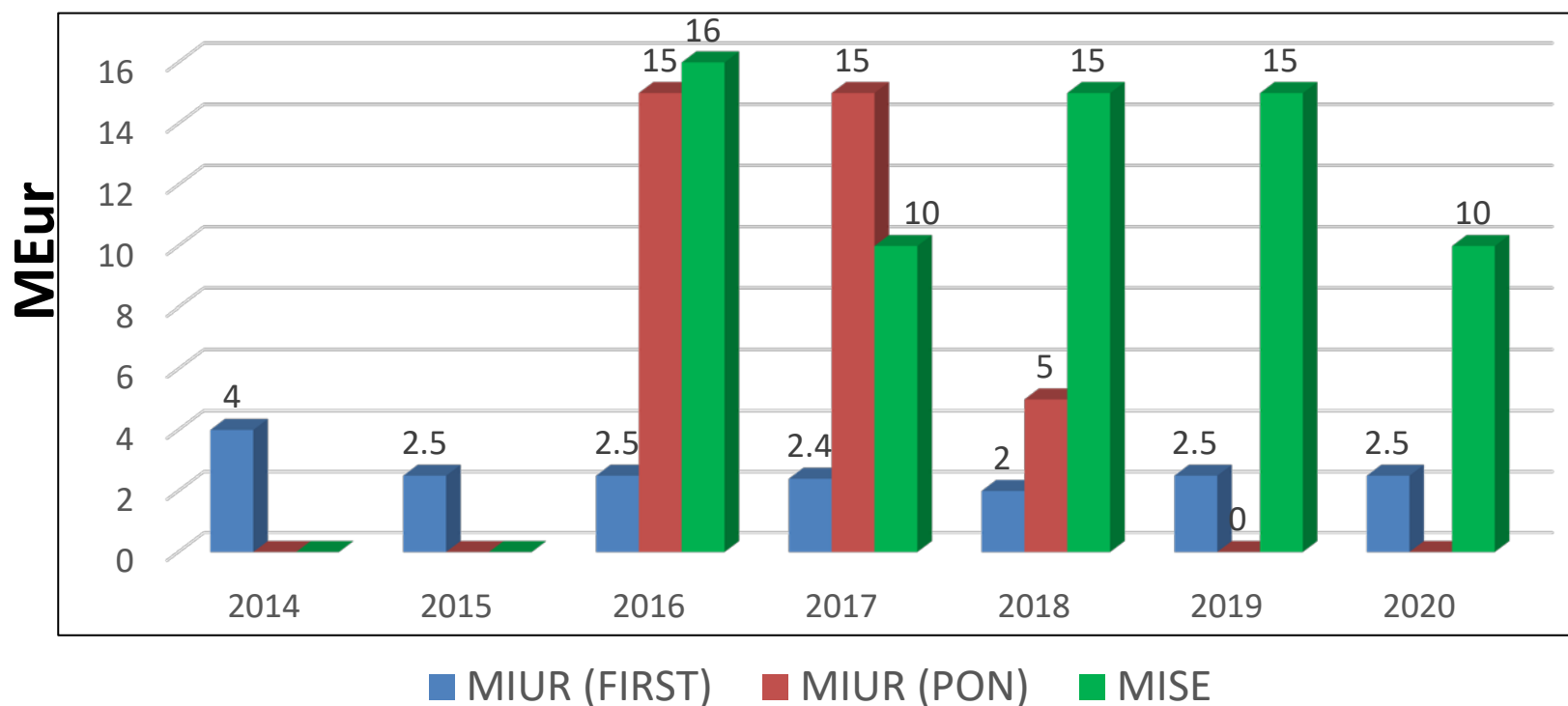
## 3 ECS KEY APPLICATION AREAS





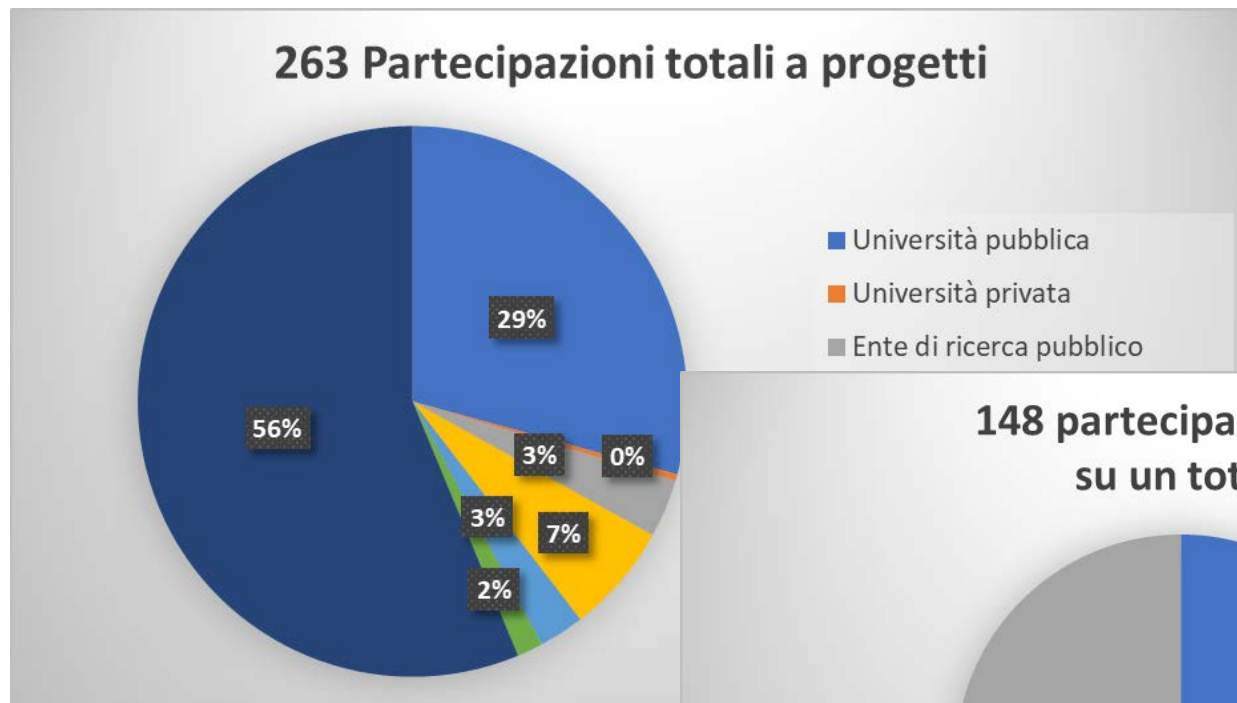
# ITALY Budget Breakdown MIUR + MISE

ITALY Budget on ECSEL Calls: 2014-2020





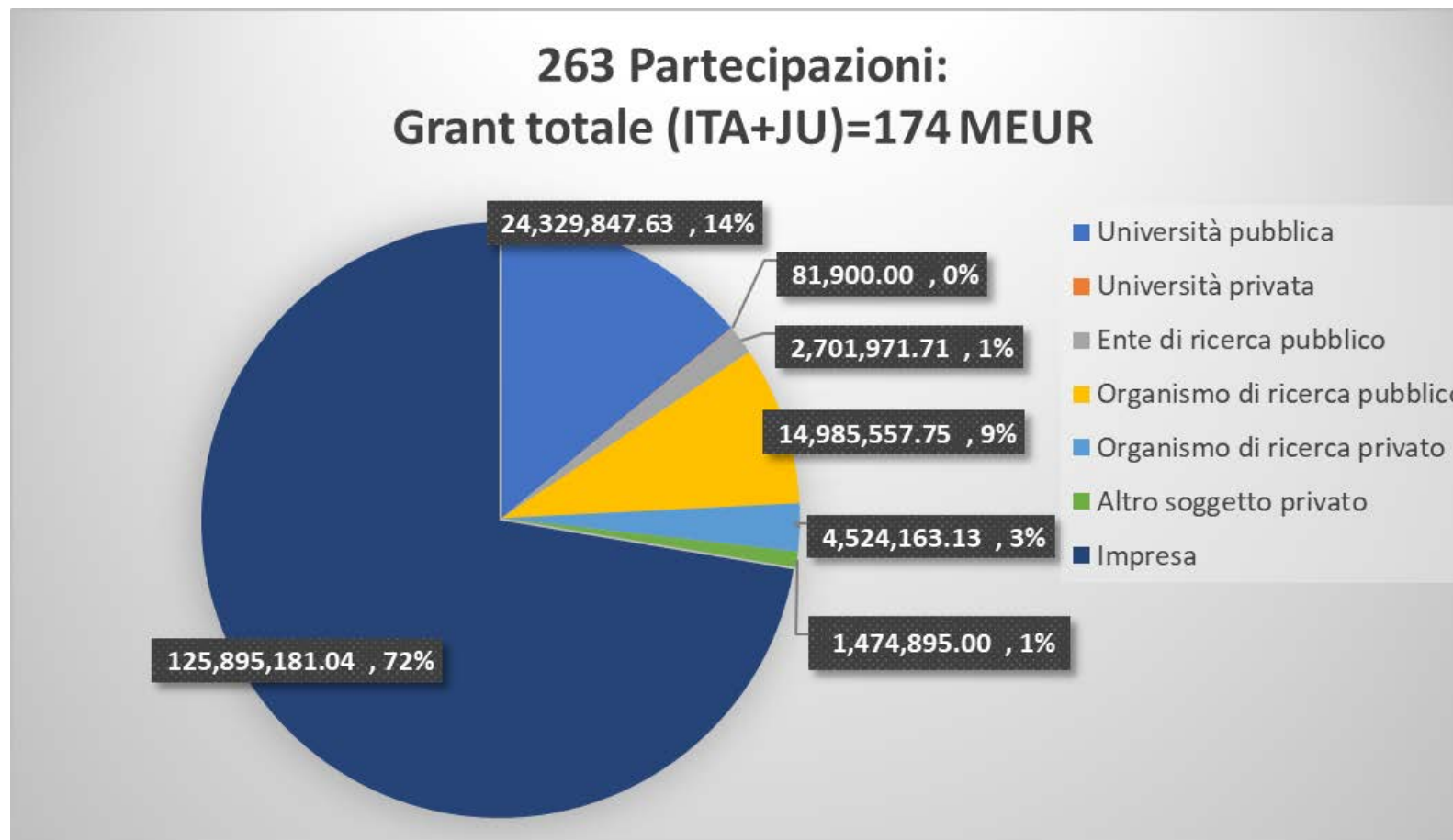
# Italian projects: 263 participants







# Italian projects Funding



# Italy: 263 participants (2014-2020)



**Cities**

**Districts**





# MIUR + MISE Total Budget voting rights at PAB 2020

	EPS	VOTES
<b>Participating States</b>	AT	33.74
	BE	49.69
	BG	0.00
	CH	8.13
	CZ	9.24
	DE	130.08
	DK	0.00
	EE	0.00
	EL	0.00
	ES	21.84
	FI	24.94
	FR	110.29
	HU	6.75
	IE	5.52
	IL	22.98

	EPS	VOTES
<b>Participating States</b>	IT	49.28
	LT	0.00
	LV	2.81
	LU	2.24
	MT	0.00
	NL	75.48
	NO	5.04
	PL	4.91
	PT	3.34
	RO	1.46
	SE	16.53
	SI	0.00
	SK	2.27
	TR	13.42
	UK	0.00

	Total EPS	600.00
EC	EC	600.00
PMB	AENEAS	321.00
	ARTEMIS-IA	176.00
	EPoSS	103.00
	Total PMB	600.00
	<b>TOTAL</b>	<b>1,800.00</b>