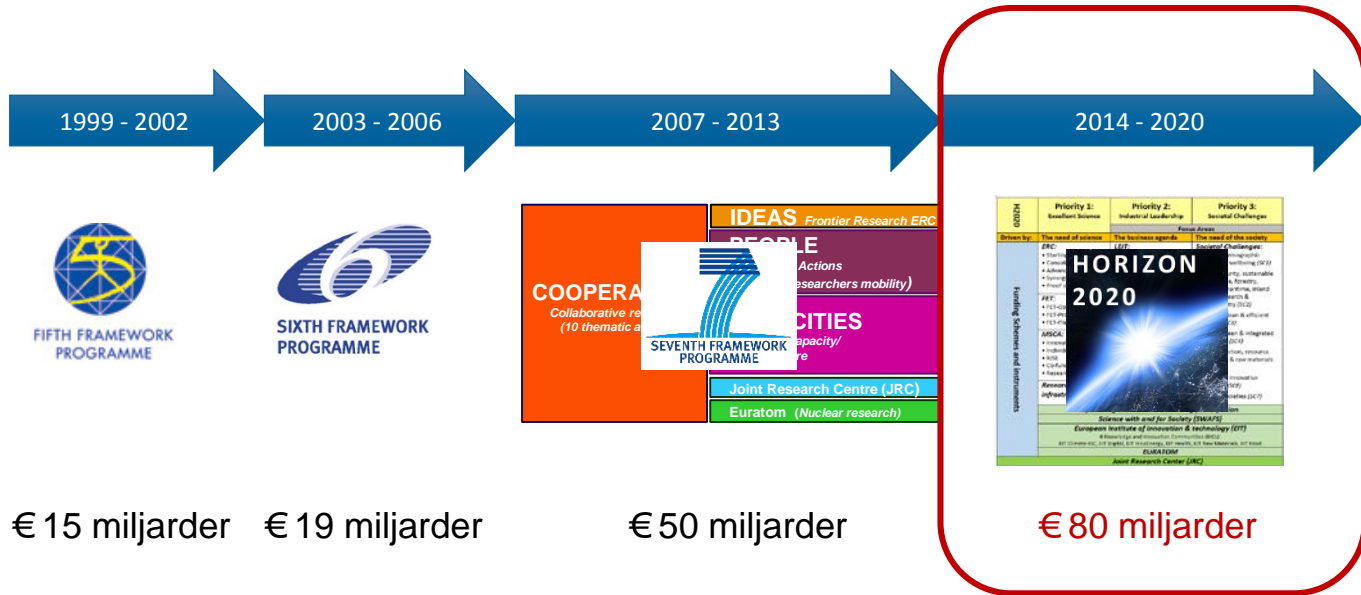


Horisont 2020 – med fokus på digitalisering

Västsvenska EU-konferensen 6-7 september



Ramprogram - EUs viktigaste instrument för att finansiera forskning & innovation



Digitalisering inom Horisont 2020

Europa 2020 strategin

10-årig strategi som syftar till en "smart, hållbar och inkluderande tillväxt" – innehåller 7 prioriterade delar:

- 1) Innovationsunionen
- 2) Unga på väg
- 3) En digital agenda för Europa**
- 4) Ett resurseffektivt Europa
- 5) Industripolitik för en globaliserad tid
- 6) En agenda för ny kompetens och nya arbetstillfällen
- 7) Europeisk plattform mot fattigdom



Digital agenda för Europa

Syftar till att bättre utnyttja potentialen i informations- och kommunikationsteknik (IKT) för att främja innovation, ekonomisk tillväxt och framsteg.

Digital Single Market strategy

Syftar till att öppna upp digitala möjligheter för människor och företag och förbättra Europas ställning som världsledande inom digital ekonomi.

Implementeras
bl.a. genom
Horisont 2020

H2020	Priority 1: Excellent Science	Priority 2: Industrial Leadership	Priority 3: Societal Challenges
	The need of science	The business agenda	Focus Areas
Driven by:	ERC: <ul style="list-style-type: none">• Starting Grants• Consolidator Grants• Advanced Grants• Synergy Grants• Proof of Concept	LEIF: <ul style="list-style-type: none">• ICT• Nanotechnologies• Advanced materials• Biotechnology• Advanced manufacturing and processing• Space	The need of the society: <ol style="list-style-type: none">1. Health, demographic change & wellbeing (SC1)2. Food security, sustainable agriculture, forestry, marine, maritime, inland water research & bioeconomy (SC2)3. Secure, clean & efficient energy (SC3)4. Smart, green & integrated Transport (SC4)5. Climate action, resource efficiency & raw materials (SC5)6. Inclusive, Innovative Societies (SC6)7. Secure societies (SC7)
Funding Schemes and Instruments	FET: <ul style="list-style-type: none">• Finance for innovators• Conjugation COSME• EIT (loans, VCF)• Startups Marie Skłodowska Curie: <ul style="list-style-type: none">• Innovative Training• Individual Fellow• RISE• Co-funding• Researchers Night Research Infrastructure	Access to risk finance: <ul style="list-style-type: none">• Finance for innovators• Conjugation COSME• EIT (loans, VCF)• Startups Support to SMEs: <ul style="list-style-type: none">• Training• SMEs (EEN)• Support• Innovation COSME, Wokers Research Infrastructure	Widening participation with and for Society: <ul style="list-style-type: none">• Innovation & technology (EIT)• EIT (loans, VCF), EIT Health, EIT Raw Materials, EIT Food EUROPEAN INSTITUTE OF TECHNOLOGY (EIT)

H2020 WP 2018-2020

http://ec.europa.eu/programmes/horizon2020/sites/horizon2020/files/stratprog_overarching_version_for_publication.pdf

Fokus områden:

- Building a low-carbon, climate resilient future
- **Digitising and transforming European industry and services**
- Connecting economic and environmental gains – the Circular economy
- **Boosting the effectiveness of the security union**

Nya och ny-gamla trender inom digitalisering

- Digitalisering av tjänster
- Cyberattacker
- Robotik - Artificiell Intelligens (AI)
- eHälsa
- Big Data
- Automatisering
- Framtidens industrier
- Smarta och hållbara städer
- Next Generation Internet
- Digital Innovation Hub



Horisont 2020 struktur

H2020	Priority 1: Excellent Science	Priority 2: Industrial Leadership	Priority 3: Societal Challenges	
	Focus Areas			
Driven by:	The need of science	The business agenda	The need of the society	
Funding Schemes and instruments	ERC: <ul style="list-style-type: none"> Starting Grants Consolidator Grants Advanced Grants Synergy Grants Proof of Concept 	LEIT: <ul style="list-style-type: none"> ICT Nanotechnologies Advanced materials Biotechnology Advanced manufacturing and processing Space 	Societal Challenges: <ol style="list-style-type: none"> Health, demographic change & wellbeing (SC1) Food security, sustainable agriculture, forestry, marine, maritime, inland water research & bioeconomy (SC2) Secure, clean & efficient energy (SC3) Smart, green & integrated transport (SC4) Climate action, resource efficiency & raw materials (SC5) Inclusive, innovative societies (SC6) Secure societies (SC7) 	
	FET: <ul style="list-style-type: none"> FET-Open FET-Proactive FET-Flagships 	Access to risk finance <ul style="list-style-type: none"> Finance for innovators EIB and EIF (loans, VCF) SME start-ups 		
	MSCA: <ul style="list-style-type: none"> Innovative Training Individual Fellow RISE Co-funding Researchers Night 	Innovation in SMEs <ul style="list-style-type: none"> Mainstreaming support SMEs (EEN) Specific support (in conjugation COSME, EUREKA/Eurostars) 		
	Research infrastructure			
	Spreading Excellence & Widening participation			
	Science with and for Society (SWAFS)			
	European Institute of innovation & technology (EIT)			
	6 Knowledge and Innovation Communities (KICs): EIT Climate-KIC, EIT Digital, EIT InnoEnergy, EIT Health, EIT Raw Materials, EIT Food			
	EURATOM			
	Joint Research Center (JRC)			

Spetskompetens:

Vad behövs för att stärka forskningen i Europa?

- **ERC** (högriskprojekt som kan ta forskningsfältet ett stort steg framåt)
- **FET** (högriskprojekt där olika teknologier och forskningsområden tillsammans kan utveckla framtidens tekniker)
- **MSCA** (sektors- och geografisk mobilitet, postdoc, forskarskola)
- **Forskningsinfrastruktur**

Forskar drivet (– bottom up), dvs ej föreskrivna utlysningar.

Projekt inom digitalisering kan söka finansiering inom alla dessa program.

H2020	Priority 1: Excellent Science	Priority 2: Industrial Leadership	Priority 3: Societal Challenges	
	Focus Areas			
Driven by:	The need of science	The business agenda	The need of the society	
Funding Schemes and instruments	ERC: <ul style="list-style-type: none"> • Starting Grants • Consolidator Grants • Advanced Grants • Synergy Grants • Proof of Concept 	LEIT: <ul style="list-style-type: none"> • ICT • Nanotechnologies • Advanced materials • Biotechnology • Advanced manufacturing and processing • Space 	Societal Challenges: <ol style="list-style-type: none"> 1. Health, demographic change & wellbeing (SC1) 2. Food security, sustainable agriculture, forestry, marine, maritime, inland water research & bioeconomy (SC2) 3. Secure, clean & efficient energy (SC3) 4. Smart, green & integrated transport (SC4) 5. Climate action, resource efficiency & raw materials (SC5) 6. Inclusive, innovative societies (SC6) 7. Secure societies (SC7) 	
	FET: <ul style="list-style-type: none"> • FET-Open • FET-Proactive • FET-Flagships 			Access to risk finance <ul style="list-style-type: none"> • Finance for innovators • EIB and EIF (loans, VCF) • SME start-ups
	MSCA: <ul style="list-style-type: none"> • Innovative Training • Individual Fellow • RISE • Co-funding • Researchers Night 	Innovation in SMEs <ul style="list-style-type: none"> • Mainstreaming support SMEs (EEN) • Specific support (in conjugation COSME, EUREKA/Eurostars) 		
	Research infrastructure			
	Spreading Excellence & Widening participation			
	Science with and for Society (SWAFS)			
	European Institute of innovation & technology (EIT)			
	6 Knowledge and Innovation Communities (KICs): EIT Climate-KIC, EIT Digital, EIT InnoEnergy, EIT Health, EIT Raw Materials, EIT Food			
	EURATOM			
	Joint Research Center (JRC)			

Industriellt ledarskap:

Vad behövs för att få en ledande industri i Europa?

- LEIT**
- **ICT** Digital Innovation Hub
Robotik - AI Digitalisering
Next Generation Internet
 - **KETs: Nanotechnologies, Advanced materials, Advanced manufacturing & processing** Framtidens industrier
Biotechnology Robotik - AI
 - **SPACE** Cyberattacker
 - **Access to risk finance** (finansiering genom lån och annat stöd till företag)
 - **Innovation in SMEs** (stöd till SME)

Policydrivet (– top down), dvs föreskrivna utlysningar (listade i arbetsprogram, WP).

H2020	Priority 1: Excellent Science	Priority 2: Industrial Leadership	Priority 3: Societal Challenges
	Focus Areas		
Driven by:	The need of science	The business agenda	The need of the society
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	FET: <ul style="list-style-type: none"> FET-Open FET-Proactive FET-Flagships 	Access to risk finance <ul style="list-style-type: none"> Finance for innovators EIB and EIF (loans, VCF) SME start-ups 	
	MSCA: <ul style="list-style-type: none"> Innovative Training Individual Fellow RISE Co-funding Researchers Night 	Innovation in SMEs <ul style="list-style-type: none"> Mainstreaming support SMEs (EEN) Specific support (in conjugation COSME, EUREKA/Eurostars) 	
	Research infrastructure		
EURATOM			
Joint Research Center (JRC)			

Utlysningar (WP 2018-2020) inom digitalisering hittas framförallt i "LEIT"-delen, men även SMEs (inom digitalisering) kan förstås söka i de andra instrumenten.

Samhälleliga utmaningar:

Vilka behov har vårt samhälle?

Hur ska vi lösa våra samhällsutmaningar?

- SC1 Health Robotik - AI Big Data eHälsa Digitalisering
- SC2 Food Digitalisering Automatisering
- SC3 Energy
- SC4 Transport Smarta och hållbara städer
- SC5 Climate
- SC6 Inclusive societies Big Data
- SC7 Security Cyberattacker

Policydrivet (– top down), dvs föreskrivna utlysningar (listade i arbetsprogram, WP).

H2020	Priority 1: Excellent Science	Priority 2: Industrial Leadership	Priority 3: Societal Challenges	
	Focus Areas			
Driven by:	The need of science	The business agenda	The need of the society	
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	Research infrastructure			
EURATOM				
Joint Research Center (JRC)				

Utlisningar (WP 2018-2020) inom digitalisering hittas framförallt i SC1 (Health), SC2 (Food), SC4 (Transport), SC6 (inclusive societies), SC7 (Security).

Övrigt inom Horisont 2020

- **Spreading Excellence & Widening Participation** (öka deltagandet av nya medlemsländer)
- **Science with & for Society (SWAFS)** (få ut forskning ut i samhället)
- **Europe Institute of Innovation & Technology (EIT)** (Institution vars arbete utgår ifrån kunskapstriangeln - knyta forskning, utbildning, innovation närmare – resultat i 6 st KICs varav en "EIT Digital")
- **EURATOM** (fusion- & fission forskning)
- **Joint research center (JRC)** (stöddorgan med uppdrag att stödja EU-KOM - tar fram olika rapporter/undersökningar)

H2020	Priority 1: Excellent Science	Priority 2: Industrial Leadership	Priority 3: Societal Challenges
	Focus Areas		
Driven by:	The need of science	The business agenda	The need of the society
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Instruments	Research infrastructure	Innovation in SMEs <ul style="list-style-type: none"> Mainstreaming support SMEs (EEN) Specific support (in conjugation COSME, EUREKA/Eurostars) 	
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EURATOM			
Joint Research Center (JRC)			




Utlysningar med inslag av digitalisering kan hittas inom "Widening participation", SWAFS. Kan även se under KIC/EIT Digital



Hjälp att hitta ICT-utlysningar i ramprogrammets alla WP?

<https://ec.europa.eu/programmes/horizon2020/sites/horizon2020/files/Guide%20to%20ICT-related%20activities%20in%20WP2016-17.pdf>





A guide to ICT-related activities in WP2016-17





ICT in H2020 – an overview

As a generic technology, ICT is present in many of the H2020 areas. This guide is designed to help potential proposers find ICT-related topics across the different parts of H2020 in work programme 2016-17.








Excellent Science

Frontier Research (ERC)
 Future & Emerging Technologies (FET) 
 Skills & career development (Marie Skłodowska-Curie)
 Research Infrastructures 

Industrial Leadership

Leadership in enabling & industrial technologies 
 ICT 
 Nanotech, Materials, Manuf. & Processing 
 Biotechnology
 Space
 Access to risk finance
 Innovation in SMEs 

Societal Challenges

Health, demographic change & wellbeing 
 Food security, sustainable agriculture, & the bio-based economy 
 Secure, clean & efficient energy 
 Smart, green & integrated transport 
 Climate action, resource efficiency, & raw materials 
 Inclusive, innovative & reflective societies 
 Secure societies 

Like in 2014-15 ICT actions supported through the work programme will allow covering the full innovation chain, from basic research to market uptake, with:

- Advanced research to uncover radically new technological possibilities and ICT contributions to upstream research and innovation are addressed in the 'Excellent science' part of the work programme, respectively under 'Future and Emerging Technologies' and 'European research infrastructures' ('infrastructures').
- Research and innovation activities on generic ICT technologies other-driven by industrial roadmaps or through a bottom-up approach are addressed in the 'Leadership in enabling and industrial technologies' (LEIT) part of the work programme.
- Multi-disciplinary application-driven research and innovation leveraging ICT to tackle societal challenges are addressed in the different 'Societal challenges'.

Annex - Detailed list of topics

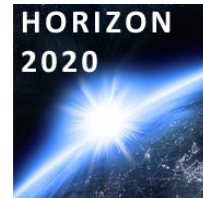
Topic ID	Topic title	Budget (M€)	Opening	Deadline 2016	Deadline 2017
Excellent Science					
Future and Emerging Technologies (FET)					
FET Open: novel ideas for radically new technologies					
FETOPEN-01-2016-2017	FET-Open research and innovation actions	194.5	08/12/15	11/09/16	17/09/17
FETOPEN-02-2016	FET-Open Coordination and Support Actions	9.0	08/12/15	11/09/16	21/09/17
FETOPEN-03-2017	FET-Open Coordination and Support Actions	1.5	20/09/16		17/09/17
FETOPEN-04-2016-2017	FET Innovation Leadership	3.0	01/06/16	28/09/16	17/09/17
FET Proactive - Boosting emerging technologies					
FETPROACT-01-2016	FET Proactive: emerging themes and communities	80.0	08/12/15	11/09/16	
FETPROACT-02-2017	FET ERANEY Calland	5.0	20/09/16		24/09/17
FETPROACT-03-2016	FET ERANEY Calland in Quantum Technologies	30.0	08/12/15	12/04/16	
FET Proactive - High Performance Computing					
FETHP-01-2016	Co-design of HPC systems and applications	41.0	14/04/16	23/09/16	
FETHP-02-2017	Transition to Exascale Computing	40.0	12/04/17		26/09/17

Kommer ny guide för ICT relaterade utlysningar i WP 2018-2020, efter att alla WP publiceras 30 oktober 2017.

ICT-01-2016	Non-Organic and Large Area Electronics	20.0	20/10/15	11/09/16	
ICT-02-2016	3D - Smart System Integration	18.5	20/10/15	11/09/16	
ICT-03-2017	Smart Archiving Everywhere Initiative	25.5	19/09/16	08/12/16	
Advanced Computing and Cloud Computing					
ICT-05-2017	Customised and low energy computing	26.0	08/12/16		21/04/17
ICT-06-2016	Cloud Computing	46.0	20/10/15	11/09/16	
Future Internet					
ICT-07-2017	5G PPP Research and Validation of critical technologies and systems	103.0	10/06/16	08/12/16	
ICT-08-2017	5G PPP Convergent Technologies	43.0	10/06/16	08/12/16	
ICT-09-2017	Networking research beyond 5G	38.0	10/06/16	08/12/16	
ICT-10-2016	Software Technologies	31.0	20/10/15	11/09/16	
ICT-11-2017	Collective Awareness Platforms for Sustainability and Social Innovation	30.0	08/12/16		31/04/17
ICT-12-2016	Net Innovation Initiative	20.0	20/10/15	11/09/16	

8

Hur söker jag?



- **Vem kan söka?**

Generellt: juridiska personer från alla medlemsländer/ associerade länder, samt internationella organisationer kan delta.

Notera: varje finansieringsinstrument har egna specifika kriterier, ex. juridiska personer från övriga världen kan söka ERC-finansiering så länge forskningen bedrivs i EU/associerat land.

- **Hur många kan delta i ett projekt?**

- *en-partnersprojekt* (ex. ERC-StG/CoG/AdG, MSCA-IF, SME-instr.)
- *fler-partnersprojekt* (ex. Societal Challenges)

Minst 3 partner från 3 olika EU-länder/associerade länder.
Hur många fler/vilka partners bestäms av projektet.

- **Hur mycket kan man söka?**

Förslag på max budget anges i utlysningstext, men det är upp till projekten att avgör vad de behöver.

Juridisk person: *ett företag, verksamhet, organisation, som har samma juridiska rättigheter som en fysisk person.*

Medlemsländer: 28 st

Associerade länder: 16 st (*Norge, Island, Färöarna, Schweiz, Bosnien & Hercegovina, Makedonien, Montenegro, Moldavien, Serbien, Georgien, Ukraina, Armenien, Turkiet, Tunisien, Albanien, Israel*)

För mer info läs: *En guide för EU-finansiering, 2017.*

<https://publications.europa.eu/en/publication-detail/-/publication/7d72330a-7020-11e7-b2f2-01aa75ed71a1>

Participant Portal – ingång till EU-utlysningar & projekthantering!



Ansökningsportal med alla utlysningar/info & projekthantering:

- **Ska man söka** – organisationen som ska stå som sökande – tidigare registrerad?
- **Work programme** - listar utlysningar
- **Templat till ansökan**
För att komma åt dessa måste man registrera sin ansökan.
- **”Guide for applicant”** - Läs noga!
- **Har en sökfunktion att hitta utlysningar:**
https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/search/search_topics.html

The screenshot shows the Horizon 2020 Participant Portal desktop interface. At the top, there is a navigation bar with the European Commission logo and the text "RESEARCH & INNOVATION Participant Portal". Below this, a breadcrumb trail reads "European Commission > Research & Innovation > Participant Portal > Home". A main navigation menu includes "MY AREA", "HOME", "FUNDING OPPORTUNITIES" (highlighted with a red box), "HOW TO PARTICIPATE", "EXPERTS", and "SUPPORT". A search bar is present with the text "Search PP" and a magnifying glass icon. A user profile dropdown for "ELLEN RYDBERG" is visible on the right. Below the navigation, a banner for "Horizon 2020 Funding Starting from 1/1/2014" features a globe. The main content area lists EU programmes: "2014-2020 Horizon 2020 - research and innovation framework programme", "2007-2013 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)", and "Research Fund for Coal & Steel, COSME, 2nd Health Programme, Consumer Programme". A yellow highlighted URL is provided: <https://ec.europa.eu/research/participants/portal/desktop/en/home.html>. Below the URL, a list of actions is provided: "search for funding", "read the H2020 Online Manual & download the legal documents", "check if an organisation is already registered", "contact our support services or check our FAQs", "submit your proposal", "sign the grant", "manage your project throughout its lifecycle", and "register as expert advising the Commission". At the bottom, there are six icons representing different portal sections: "WHAT'S NEW?", "FUNDING OPPORTUNITIES", "HOW TO PARTICIPATE", "WORK AS AN EXPERT", "MY PERSONAL AREA", and "INFORMATION AND SUPPORT".

Tips och trix

- **H2020 projekt är komplexa, men inte omöjliga - börja i tid!**
Kan få hjälp: tex Regionens alla lärosäten har Grants Office, SME får hjälp av EUSME Support, Sahlgrenska sjukhuset har Grants Office
- **Vad gör din projektidé unik och hur bidrar den till ett bättre Europa?**
Vilka är de "impacts" man vill uppnå med utlysningen – kan din idé bidra med fler "impacts" utöver dessa som gör ditt projekt mer konkurrenskraftigt?
- **Vilka partners är de bästa att utföra projektet?**
*Kompetenser ska komplettera inte överlappa!
– Bra att få med slutanvändare.*
- **Bevakning i Bryssel?**
- **Delta i workshops och informationsdagar**
- **Nätverk och arbetsgruppsmöten för tidig information**
- **Är du med och påverkar arbetsprogrammen?**



Event

- **14 sept:** Grundkurs i H2020 (även 21 nov) – Vinnova
- **26 sept:** Finansiella frågor inom H2020 – Vinnova
- **4 okt:** Rapportering och revision inom H2020 – Vinnova
- **13 okt:** Informationsseminarium om H2020 - med fokus på energiprogrammet – Hållbar Utveckling Väst, hålls i Borås, ellen.thersthol@huv.nu
- **25 okt:** Svenska lanseringen av WP2018-2020, Stockholm – Vinnova
- **9-10 nov:** ICT Proposer's Day 2017, Budapest (med fokus på kommande utlysningar), anordnad av EU-Kommissionen
<https://ec.europa.eu/digital-single-market/en/events/ict-proposers-day-2017>
- **9 nov:** Informationsdag om de nya arbetsprogrammen, Göteborg, anordnad av GU, Chalmers och Vinnova
- **21-24 nov:** ERRIN projektutvecklingsvecka i Bryssel <http://errinh2020pdw.eu/>

Digitalisering efter 2020?

- Påbörjad diskussion om nästa ramprogrammet för forskning och innovation (FP9)
- Öppet samråd från KOM under HT17/VT18 om ny struktur och fokus efter 2020
- Förslag på FP9 klar i mitten av 2018/HT18?
- Hur stor roll kommer digitalisering ha?
- Olika forum för påverkansarbete



H2020	Priority 1: Excellent Science	Priority 2: Industrial Leadership	Priority 3: Societal Challenges
	Focus Areas		
	The need of science	The business agenda	The need of the society
Funding Schemes and Instruments	ERC <ul style="list-style-type: none">• Starting Grants• Consolidator Grants• Advanced Grants• Synergy Grants• Proof of Concept	LEIT <ul style="list-style-type: none">• ICT• Nanotechnologies• Advanced materials• Biotechnology• Advanced manufacturing and processing• Space	1. Health, demographic change & wellbeing (SC1)
	ERC <ul style="list-style-type: none">• ERC-Open• ERC-Proactive• ERC-Flagships	Access to risk finance <ul style="list-style-type: none">• Finance for Innovators (in conjunction COSME)• EIB and EIF (loans, VCF)• SME start-ups	2. Food security, sustainable agriculture, forestry, marine, maritime, inland water research & bioeconomy (SC2)
	Maria Curie Actions <ul style="list-style-type: none">• Innovative Training• Individual Fellow• Marie Skłodowska Curie Actions• Co-Funding• Researchers Night	Innovation in SMEs <ul style="list-style-type: none">• Mainstreaming support SMEs (ETN)• Specific support (in conjunction COSME, EUREKA/Eurostars)	3. Secure, clean & efficient energy (SC3)
	Research Infrastructure		4. Smart, green & integrated Transport (SC4)
	Spreading Excellence & Widening participation		
	Science with and for Society		
	European Institute of Innovation & Technology (EIT)		
	6 Knowledge and Innovation Communities (KICs), a PSP partnership, Knowledge triangle: EIT Climate-KIC, EIT Digital, EIT InnoEnergy, EIT Health, EIT Raw Materials, EIT Food		
	EURATOM		
	Joint Research Centre (JRC)		

➔ FP9 ?

Sveriges Horisont 2020 kontakter:

- **Alla nationella kontaktpersoner (NCP):**
<https://www.vinnova.se/m/horisont-2020/kontaktlista/>
- **NCP för ICT på VINNOVA/Vetenskapsrådet:**
 - Johan Lindberg, +46 8 454 64 53, johan.lindberg@vinnova.se
 - Andrej Litwin, +46 8 473 30 45, andrej.litwin@vinnova.se
 - Andreas Augustsson, +46 8 546 441 74, andreas.augustsson@vr.se
- **Är du ett SME?**
Kontakta EUSMEsupport (helpdesk@eusme.se)
EEN (<https://enterpriseurope.se/>)
- **Övrigt om Horisont 2020/ICT:**
Guide to ICT in Horizon 2020
 - Googla *"guide to ict-related activities in wp 2016-17"*



Vill veta mer?

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Digitalisering i det strategiska programmet inför WP 2018-2020

Se Strategiska programmet H2020 WP 2018-2020:

http://ec.europa.eu/programmes/horizon2020/sites/horizon2020/files/stratprog_overarching_version_for_publication.pdf

Notera att man här listar 4 st fokus områden, varav 2 berör just digitalisering på något sätt:

- Building a low-carbon, climate resilient future
- **Digitising and transforming European industry and services**
- Connecting economic and environmental gains – the Circular economy
- **Boosting the effectiveness of the security union**

De kommande bilderna, listar respektive prioriteringar man har för de olika H2020 instrument och de ex på utlysningar som har tagits med, är hämtade ur de WP 2018-2020 draft som har börjat komma.

– **NOTERA** att då dessa är just drafts, så kan ändringar ske fram tills de blir officiella och publiceras i 30 oktober 2017



WP 2018-2020 LEIT-ICT:

Prioriteringar och ex på utlysningar

Prioriteringar inom LEIT-ICT:

- Ensuring future-proof connectivity and **preparing for the internet of the future**
- Building on European strengths and **supporting the digitization of industry**
- Building a **competitive and inclusive data-driven economy and society**
- Setting up **large-scale pilots addressing cross-sector**
- **Boosting digital innovation challenges** capacity across Europe and supporting standards
- Exploring **new high-potential areas**
- **Further developing** an ambitious international agenda serving our **Digitising European Industry strategy**

2020	Priority 1: Excellent Science	Priority 2: Industrial Leadership	Priority 3: Societal Challenges
	Focus Areas		
Driven by:	The need of science	The business agenda	The need of the society
Funding Schemes and Instruments	ERC: <ul style="list-style-type: none"> Starting Grants Consolidator Grants Advanced Grants Synergy Grants Proof of Concept 	LEIT: <ul style="list-style-type: none"> ICT Nanotechnologies Advanced materials Biotechnology Advanced manufacturing and processing Space 	Societal Challenges: <ol style="list-style-type: none"> Health, demographic change & wellbeing (SC1) Food security, sustainable agriculture, forestry, marine, maritime, inland water research & bioeconomy (SC2) Secure, clean & efficient energy (SC3) Smart, green & integrated transport (SC4) Climate action, resource efficiency & raw materials (SC5) Inclusive, innovative societies (SC6) Secure societies (SC7)
	FET: <ul style="list-style-type: none"> FET-Open FET-Proactive FET-Flagships 	Access to risk finance <ul style="list-style-type: none"> Finance for Innovators EIB and EIF (loans, VCF) SME start-ups 	
	MSCA: <ul style="list-style-type: none"> Innovative Training Individual Fellow RISE Co-funding Researchers Night 	Innovation in SMEs <ul style="list-style-type: none"> Mainstreaming support SMEs (EEN) Specific support (in conjugation COSME, EUREKA/Eurostars) 	
	Research Infrastructure		
	Spreading Excellence & Widening participation		
	Science with and for Society (SWAFS)		
	European Institute of innovation & technology (EIT) <ul style="list-style-type: none"> Knowledge and Innovation Communities (KICs): EIT Climate-KIC, EIT Digital, EIT InnoEnergy, EIT Health, EIT Raw Materials, EIT Food 		
	EURATOM		
	Joint Research Center (JRC)		

Ex på utlysningar:

- ICT-09-2018: *Electronic Smart Systems (ESS)*
- ICT-17-2018-19: *HPC and Big Data enabled Large-scale Test-beds and Applications*
- ICT-23-2018: *5G End to End Facility*
- ICT-29-2018-2019: *Next Generation Internet - An Open Internet Initiative*
- ICT-30-2018-2020: *Interactive Technologies*
- ICT-31-2018-2020: *Artificial Intelligence*

WP 2018-2020 LEIT-Key Enabling Technologies (KETs):

Prioriteringar och ex på utlysningar

Prioriteringar inom LEIT-KETs:

- **Digitising European industry**
- Decarbonising European industry
- Industry in the Circular Economy

Ex på utlysningar:

DT-NMBP-20-2018: A digital 'plug and produce' online equipment platform for manufacturing

DT-SPIRE-06-2019: Digital technologies for improved performance in cognitive production plants

DT-FoF-02-2018: Effective Industrial Human-Robot Collaboration

LC-EeB-06-2018-20: ICT enabled, sustainable and affordable residential building construction, design to end of life

H2020	Priority 1: Excellent Science	Priority 2: Industrial Leadership	Priority 3: Societal Challenges
	Focus Areas		
Funding Schemes and Instruments	Driven by: The need of science	The business agenda	The need of the society
	ERC: • Starting Grants • Consolidator Grants • Advanced Grants • Synergy Grants • Proof of Concept	LEIT: • ICT • Nanotechnologies • Advanced materials • Biotechnology • Advanced manufacturing and processing • Space	Societal Challenges: 1. Health, demographic change & wellbeing (SCI) 2. Food security, sustainable agriculture, forestry, marine, maritime, inland water research & bioeconomy (SC2) 3. Secure, clean & efficient energy (SC3) 4. Smart, green & integrated transport (SC4) 5. Climate action, resource efficiency & raw materials (SC5) 6. Inclusive, innovative societies (SC6) 7. Secure societies (SC7)
	FET: • FET-Open • FET-Proactive • FET-Flagships	Access to risk finance • Finance for Innovators • EIB and EIF loans, VCF • SME start-ups	
	MSCA: • Innovative Training • Individual Fellow • RISE • Co-funding • Researchers Night	Innovation in SMEs • Mainstreaming support SMEs (EEN) • Specific support (in conjunction COSME, EUREKA/Eurostars)	
	Research Infrastructure		
	Spreading Excellence & Widening participation Science with and for Society (SWAFS)		
	European Institute of Innovation & Technology (EIT) EIT Knowledge and Innovation Communities (KICs): EIT Climate-KIC, EIT Digital, EIT InnoEnergy, EIT Health, EIT Raw Materials, EIT Food		
	EURATOM		
	Joint Research Center (JRC)		

Key Enabling Technologies (KETs) =

- Nanotechnologies
- Advanced materials
- Advanced manufacturing and processing
- Biotechnology

WP 2018-2020 LEIT-Space:

Prioriteringar och ex på utlysningar

Prioriteringar inom LEIT (Space):

- Support the market uptake of, investment in and evolution of EU flagship space programmes Copernicus and EGNSS
- **Strengthening the competitiveness of the European space sector including for critical components and systems**
- **Ensure Europe's accessibility to react to and anticipate disruptive changes in access to space**
- Managing threats from space

H2020	Priority 1: Excellent Science	Priority 2: Industrial Leadership	Priority 3: Societal Challenges
	Focus Areas		
Driven by:	The need of science	The business agenda	The need of the society
Funding Schemes and Instruments	ERC: <ul style="list-style-type: none"> • Starting Grants • Consolidator Grants • Advanced Grants • Synergy Grants • Proof of Concept 	LEIT: <ul style="list-style-type: none"> • ICT • Nanotechnologies • Advanced materials • Biotechnology • Advanced manufacturing and processing • Space 	Societal Challenges: <ol style="list-style-type: none"> 1. Health, demographic change & wellbeing (SC1) 2. Food security, sustainable agriculture, forestry, marine, maritime, inland water research & bioeconomy (SC2) 3. Secure, clean & efficient energy (SC3) 4. Smart, green & integrated transport (SC4) 5. Climate action, resource efficiency & raw materials (SC5) 6. Inclusive, innovative societies (SC6) 7. Secure societies (SC7)
	FET: <ul style="list-style-type: none"> • FET-Open • FET-Proactive • FET-Flagships 	Access to risk finance <ul style="list-style-type: none"> • Finance for innovators • EIB and EIF (loans, VCF) • SME start-ups 	
	MSCA: <ul style="list-style-type: none"> • Innovative Training • Individual Fellow • RISE • Co-funding • Researchers Night 	Innovation in SMEs <ul style="list-style-type: none"> • Mainstreaming support SMEs (EEN) • Specific support (in conjugation COSME, EUREKA/Eurostars) 	
	Research infrastructure		
	Spreading Excellence & Widening participation		
	Science with and for Society (SWAFS)		
	European Institute of innovation & technology (EIT)		
	<small>© Knowledge and Innovation Communities (KIC): EIT Climate-KIC, EIT Digital, EIT InnoEnergy, EIT Health, EIT Raw Materials, EIT Food</small>		
	EURATOM		
	Joint Research Center (JRC)		

Ex på utlysningar:

SPACE-11-TEC-2018: SRC – Space robotics technologies

SPACE-14-TEC-2019: Satellite communication technologies

SPACE-19-SCI-2018: Scientific data exploitation, instrumentation and technologies enabling space science and exploration

SPACE-EGNSS-2-2019: EGNSS applications fostering digitisation



WP 2018-2020 SC1-Health:

Prioriteringar och ex på utlysningar

Prioriteringar inom SC1, Health:

- Better health and care, economic growth and sustainable health systems
- Decoding the role of the overall environment for health and well-being
- **Digital transformation in health and care**
- **Trusted big data solutions** and **cybersecurity for health and care**

H2020	Priority 1: Excellent Science	Priority 2: Industrial Leadership	Priority 3: Societal Challenges
	Focus Areas		
Funding Schemes and Instruments	Driven by: The need of science	The business agenda	The need of the society
	ERC: • Starting Grants • Consolidator Grants • Advanced Grants • Synergy Grants • Proof of Concept	LEIT: • ICT • Nanotechnologies • Advanced materials • Biotechnology • Advanced manufacturing and processing • Space	Societal Challenges: 1. Health, demographic change & wellbeing (SC1) 2. Food security, sustainable agriculture, forestry, marine, maritime, inland water research & bioeconomy (SC2) 3. Secure, clean & efficient energy (SC3) 4. Smart, green & integrated transport (SC4) 5. Climate action, resource efficiency & raw materials (SC5) 6. Inclusive, innovative societies (SC6) 7. Secure societies (SC7)
	FET: • FET-Open • FET-Proactive • FET-Flagships	Access to risk finance • Finance for innovators • EIS and EIF (loans, VCF) • SME start-ups	
	MSCA: • Innovative Training • Individual Fellow • RISE • Co-funding • Researchers Night	Innovation in SMEs • Mainstreaming support SMEs (EEN) • Specific support (in conjugation COSME, EUREKA/Eurostars)	
	Research infrastructure		
	Spreading Excellence & Widening participation		
	Science with and for Society (SWAFS)		
	European Institute of innovation & technology (EIT)		
	6 Knowledge and Innovation Communities (KICs): EIT Climate-KIC, EIT Digital, EIT InnoEnergy, EIT Health, EIT Raw Materials, EIT Food		
	EURATOM		
Joint Research Center (JRC)			

Ex på utlysningar:

SC1-DTH-01-2019: *Big Data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatment*

SC1-DTH-05-2019: *Large scale implementation of digital innovation for health and care in an ageing society*

SC1-DTH-10-2019-2020: *eHealth and care services*

DT-11-2019: *Smart and healthy living at home*

SU-TDS-01-2018: *Toolkit for assessing and reducing cyber risks in hospitals and care centres to protect data/infrastructures*

SC1-BHC-06: *Digital diagnostics – developing tools for clinical decisions integrating in vitro and invivo diagnostics.*

SC1-HCC-05-2018: *Support to a Digital Health and Care Innovation initiative and preparation for next framework programme*

WP 2018-2020 SC2-Food:

Prioriteringar och ex på utlysningar

Prioriteringar inom SC2, Food security, sustainable agriculture, forestry, marine, maritime, inland water research and the bioeconomy:

- Addressing climate change & resilience on land and at sea
- Making the transition towards a circular bioeconomy
- Functional ecosystems, sustainable food systems, healthy lifestyles
- Boosting major innovations on land and sea – new products, value chains and markets
- Developing smart, connected territories and value chains in rural and coastal areas

H2020	Priority 1: Excellent Science	Priority 2: Industrial Leadership	Priority 3: Societal Challenges
	Focus Areas		
Driven by:	The need of science	The business agenda	The need of the society
Funding Schemes and Instruments	ERC: • Starting Grants • Consolidator Grants • Advanced Grants • Synergy Grants • Proof of Concept	LEIT: • ICT • Nanotechnologies • Advanced materials • Biotechnology • Advanced manufacturing and processing • Space	Societal Challenges: 1. Health, demographic change & wellbeing (SC1) 2. Food security, sustainable agriculture, forestry, marine, maritime, inland water research & bioeconomy (SC2) 3. Secure, clean & efficient energy (SC3) 4. Smart, green & integrated transport (SC4) 5. Climate action, resource efficiency & raw materials (SC5) 6. Inclusive, innovative societies (SC6) 7. Secure societies (SC7)
	FET: • FET-Open • FET-Proactive • FET-Flagships	Access to risk finance • Finance for innovators • EIB and EIF (loans, VCF) • SME start-ups	
	MSCA: • Innovative Training • Individual Fellow • RISE • Co-funding • Researchers Night	Innovation in SMEs • Mainstreaming support SMEs (EEN) • Specific support (in conjugation COSME, EURERKA/Eurostars)	
	Research Infrastructure		
	Spreading Excellence & Widening participation		
	Science with and for Society (SWAFS)		
	European Institute of Innovation & Technology (EIT)		
	6 Knowledge and Innovation Communities (KICs)		
	EIT Climate-KIC, EIT Digital, EIT InnoEnergy, EIT Health, EIT Raw Materials, EIT Food		
	EURATOM		
Joint Research Center (JRC)			

Ex på utlysningar:

DT-RUR-13-2020: *Digital service platforms for rural economies*

DT-RUR-14-2018: *ICT Innovation for agriculture – Digital Innovation Hubs for Agriculture*

RUR-16-2018: *Digital solutions and e-tools to modernise EU's Common Agricultural Policy*

DT-SFS-14-2018-2019: *Personalized Nutrition*

RUR-02-2018: *Socio-economic impacts of digitisation of agriculture and rural areas*

RUR-15-2018: *Enabling the farm advisor community to prepare farmers for the digital age*

WP 2018-2020 SC4-Transport: Prioriteringar och ex på utlysningar

Prioriteringar inom SC4, Transport:

- Towards an integrated, sustainable and robust transport system
- **Technologies transforming the transport system**
- Global leadership, competitiveness, business models and markets
- Accounting for the people: demand, needs and behaviours; inclusion and access

2020	Priority 1: Excellent Science	Priority 2: Industrial Leadership	Priority 3: Societal Challenges	
Funding Schemes and Instruments	Focus Areas			
	Driven by:	The need of science	The business agenda	The need of the society
	ERC:	LEIT:	Societal Challenges:	
	<ul style="list-style-type: none"> Starting Grants Consolidator Grants Advanced Grants Synergy Grants Proof of Concept 	<ul style="list-style-type: none"> ICT Nanotechnologies Advanced materials Biotechnology Advanced manufacturing and processing Space 	<ol style="list-style-type: none"> 1. Health, demographic change & wellbeing (SC1) 2. Food security, sustainable agriculture, forestry, marine, maritime, inland water research & bioeconomy (SC2) 3. Secure, clean & efficient energy (SC3) 4. Smart, green & integrated transport (SC4) 5. Climate action, resource efficiency & raw materials (SC5) 6. Inclusive, innovative societies (SC6) 7. Secure societies (SC7) 	
	FET:	Access to risk finance		
	<ul style="list-style-type: none"> FET-Open FET-Proactive FET-Flagships 	<ul style="list-style-type: none"> Finance for innovators EIB and EIF (loans, VCF) SME start-ups 		
	MSCA:	Innovation in SMEs		
	<ul style="list-style-type: none"> Innovative Training Individual Fellow RISE Co-funding Researchers Night 	<ul style="list-style-type: none"> Mainstreaming support SMEs (EEN) Specific support (in conjunction COSME, EUREKA/Eurostars) 		
	Research Infrastructure			
	Spreading Excellence & Widening participation			
Science with and for Society (SWAFS)				
European Institute of Innovation & Technology (EIT)				
6 Knowledge and Innovation Communities (KICs)				
EIT Climate-KIC, EIT Digital, EIT InnoEnergy, EIT Health, EIT Raw Materials, EIT Food				
EURATOM				
Joint Research Center (JRC)				

Ex på utlysningar:

MG-4-1-2019: *An inclusive digitally interconnected transport system meeting citizens' needs*

MG-4-3-2018: *Building Open Science platforms in transport research*

WP 2018-2020 SC6-Inclusive Societies: Prioriteringar och ex på utlysningar

Prioriteringar inom SC6, Inclusive societies:

- Migration and the refugee crisis
- Cultural and **technological transformations for human and social progress: Values, identity and belonging; Human-technology interface**
- Governance for the future

H2020	Priority 1: Excellent Science	Priority 2: Industrial Leadership	Priority 3: Societal Challenges
	Focus Areas		
Driven by:	The need of science	The business agenda	The need of the society
Funding Schemes and Instruments	ERC: <ul style="list-style-type: none"> • Starting Grants • Consolidator Grants • Advanced Grants • Synergy Grants • Proof of Concept 	LEIT: <ul style="list-style-type: none"> • ICT • Nanotechnologies • Advanced materials • Biotechnology • Advanced manufacturing and processing • Space 	Societal Challenges: <ol style="list-style-type: none"> 1. Health, demographic change & wellbeing (SC1) 2. Food security, sustainable agriculture, forestry, marine, maritime, inland water research & bioeconomy (SC2) 3. Secure, clean & efficient energy (SC3) 4. Smart, green & integrated transport (SC4) 5. Climate action, resource efficiency & raw materials (SC5) 6. Inclusive, innovative societies (SC6) 7. Secure societies (SC7)
	FET: <ul style="list-style-type: none"> • FET-Open • FET-Proactive • FET-Flagships 	Access to risk finance <ul style="list-style-type: none"> • Finance for Innovators • EIB and EIF (loans, VCF) • SME start-ups 	
	MSCA: <ul style="list-style-type: none"> • Innovative Training • Individual Fellow • RISE • Co-funding • Researchers Night 	Innovation in SMEs <ul style="list-style-type: none"> • Mainstreaming support SMEs (EEN) • Specific support (in conjugation COSME, EUREKA/Eurostars) 	
	Research Infrastructure		
		Spreading Excellence & Widening participation Science with and for Society (SWAFS)	
	European Institute of innovation & technology (EIT) <small>6 Knowledge and Innovation Communities (KICs): EIT Climate-KIC, EIT Digital, EIT InnoEnergy, EIT Health, EIT Raw Materials, EIT Food</small>		
	EURATOM Joint Research Center (JRC)		

DT-TRANSFORMATIONS-07-2019: *The impact of technological transformations on children and youth*

DT-TRANSFORMATIONS-13-2019: *Using big data approaches in research and innovation policy making*

WP 2018-2020 SC7-Security:

Prioriteringar och ex på utlysningar

Prioriteringar inom SC7, Security:

- Borders and external security
- Fighting crime and counter-terrorism
- Secure and resilient societies
- **Cybersecurity and digital privacy**
- Competitive European security industry

H2020	Priority 1: Excellent Science	Priority 2: Industrial Leadership	Priority 3: Societal Challenges	
	Focus Areas			
Funding Schemes and Instruments	Driven by:	The need of science	The need of the society	
	ERC:	LEIT:	Societal Challenges:	
	<ul style="list-style-type: none"> • Starting Grants • Consolidator Grants • Advanced Grants • Synergy Grants • Proof of Concept 	<ul style="list-style-type: none"> • ICT • Nanotechnologies • Advanced materials • Biotechnology • Advanced manufacturing and processing • Space 	<ol style="list-style-type: none"> 1. Health, demographic change & wellbeing (SC1) 2. Food security, sustainable agriculture, forestry, marine, maritime, inland water research & bioeconomy (SC2) 3. Secure, clean & efficient energy (SC3) 4. Smart, green & integrated transport (SC4) 5. Climate action, resource efficiency & raw materials (SC5) 6. Inclusive, innovative societies (SC6) 7. Secure societies (SC7) 	
	FET:	Access to risk finance		
	<ul style="list-style-type: none"> • FET-Open • FET-Proactive • FET-Flagships 	<ul style="list-style-type: none"> • Finance for innovators • EIB and EIF (loans, VCF) • SME start-ups 		
	MSCA:	Innovation in SMEs		
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	Research infrastructure			
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	6 Knowledge and Innovation Communities (KICs): EIT Climate-KIC, EIT Digital, EIT InnoEnergy, EIT Health, EIT Raw Materials, EIT Food			
	EURATOM			
	Joint Research Center (JRC)			

Ex på utlysningar:

SU-TDS-01-2018: *Toolkit for assessing and reducing cyber risks in hospitals and care centres to protect data/infrastructures*

SU-ICT-03-2020: *Advanced cybersecurity and digital privacy technologies*