The list of main Innovation statistics indicators

Main Innovation statistics indicators are identified in The Commission Regulation (EU) No 995/2012, implementing Decision No 1608/2003/EC of the European Parliament and of the Council concerning the production and development of Community statistics on science and technology:

1. Innovative enterprises by types of innovation

Code	Label	Detailed rules
TOTAL	Total enterprises	
INNO	Innovative enterprises (including enterprises with abandoned/suspended or on-going innovation activities)	(INPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1 or ORGBUP=1 or ORGWKP=1 or ORGEXR=1 or MKTDGP=1 or MKTPDP=1 or MKTPDL=1 or MKTPRI=1)
INNO_PP	Product and/or process innovative enterprises only (including enterprises with abandoned/suspended or on-going innovation activities)	(INPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1) and (ORGBUP < > 1 and ORGWKP < > 1 and ORGEXR < > 1 and MKTDGP < > 1 and MKTPDP < > 1 and MKTPDL < > 1 and MKTPRI < > 1)
INNO_NPP	Organisation and/or marketing innovative enterprises only	(INPDGD < > 1 and INPDSV < > 1 and INPSPD < > 1 and INPSLG < > 1 and INPSSU < > 1 and INABA < > 1 and INONG < > 1) and (ORGBUP=1 or ORGWKP=1 or ORGEXR=1 or MKTDGP=1 or MKTPDP=1 or MKTPDL=1 or MKTPRI=1)
INNO_PPANPP	Product and/or process AND organisation and/or marketing innovative enterprises only (including enterprises with abandoned/suspended or on-going innovation activities	(INPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1) and (ORGBUP=1 or ORGWKP=1 or ORGEXR=1 or MKTDGP=1 or MKTPDP=1 or MKTPDL=1 or MKTPRI=1)
NON_INNO	Non-innovative enterprises	(INPDGD < > 1 and INPDSV < > 1 and INPSPD < > 1 and INPSLG < > 1 and INPSSU < > 1 and INABA < > 1 and INONG < > 1 and ORGBUP < > 1 and ORGWKP < > 1 and ORGEXR < > 1 and MKTDGP < > 1 and MKTPDP < > 1 and MKTPDL < > 1 and MKTPRI < > 1)
INPDT	Product innovative enterprises (regardless of any other type of innovation)	INPDGD=1 or INPDSV=1
INPCS	Enterprises with process innovations	INPSPD=1 or INPSLG=1 or INPSSU=1
INNOACT	Enterprises with innovation activity relating to products or processes	NPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1
INORG	Enterprises with organizational innovations	ORGBUP=1 or ORGWKP=1 or ORGEXR=1
INMKT	Enterprises with marketing innovations	MKTDGP=1 or MKTPDP=1 or MKTPDL=1 or MKTPRI=1

Code	Label	
TOTAL	Total enterprises	
INPDGD	Enterprises that introduced goods innovation (product innovation)	INPDGD=1
INPDSV	Enterprises that introduced service innovation (product innovation)	INPDSV=1
INPSPD	Enterprises that introduced new methods of manufacturing / producing (process innovation)	INPSPD=1
INPSLG	Enterprises that introduced new methods of logistics, delivery, distribution (process innovation)	INPSLG=1
INPSSU	Enterprises that introduced supporting activities (process innovation)	INPSSU=1
INABA	Enterprises that had innovation activities that were abandoned or suspended	INABA=1
INONG	Enterprises that had innovation activities that were still ongoin in the end of observation period	INONG=1
ORGBUP	Enterprises that implemented new business practices (organisation innovation)	ORGBUP=1
ORGWKP	Enterprises that implemented new methods of organising work responsibilities and decision making (organisation innovation)	ORGWKP=1
ORGEXR	Enterprises that implemented new methods of organising external relations (organisation innovation)	ORGEXR=1
MKTDGP	Enterprises that introduced significant changes to the aesthetic design or packaging (marketing innovation)	MKTDGP=1
MKTPDP	Enterprises that introduced new media or techniques for product promotion (marketing innovation)	MKTPDP=1
MKTPDL	Enterprises that introduced new methods for product placement (marketing innovation)	MKTPDL=1
MKTPRI	Enterprises that introduced new methods of pricing goods or services (marketing innovation)	MKTPRI=1

2. Hampering factors Please remark that in CIS this is only for INNOACT

Code	Label	Rule
INNO	Innovative enterprises (including enterprises with abandoned/suspended or on-going innovation activities)	(INPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1 or ORGBUP=1 or ORGWKP=1 or ORGEXR=1 or MKTDGP=1 or MKTPDP=1 or MKTPDL=1 or MKTPRI=1)
HFENT_HIGH	Enterprises that consider lack of funds highly hampering innovations activities	INNO=1 and (HFENT=3)
HFENT_NU	Enterprises that consider lack of funds no hampering innovations activities	INNO=1 and (HFENT=0)
HFOUT_HIGH	Enterprises that consider lack of finance highly hampering innovations activities	INNO=1 and (HFOUT=3)
HFOUT_NU	Enterprises that consider lack of finance no hampering innovations activities	INNO=1 and (HFOUT=0)
HCOS_HIGH	Enterprises that consider high innovation costs highly hampering innovations activities	INNO=1 and (HCOS=3)
HCOS_NU	Enterprises that consider high innovation costs no hampering innovations activities	INNO=1 and (HCOS=0)
HPER_HIGH	Enterprises that consider lack of qualified personnel highly hampering innovations activities	INNO=1 and (HPER=3)
HPER_NU	Enterprises that consider lack of qualified personnel no hampering innovations activities	INNO=1 and (HPER=0)
HTEC_HIGH	Enterprises that consider lack of information on technology highly hampering innovations activities	INNO=1 and (HTEC=3)
HTEC_NU	Enterprises that consider lack of information technology no hampering innovations activities	INNO=1 and (HTEC=0)
HINF_HIGH	Enterprises that consider lack of information on markets highly hampering innovations activities	INNO=1 and (HINF=3)
HINF_NU	Enterprises that consider lack of information on markets no hampering innovations activities	INNO=1 and (HINF=0)
HPAR_HIGH	Enterprises that consider difficulty in finding cooperation partners for innovation highly hampering innovations activities	INNO=1 and (HPAR=3)
HPAR_NU	Enterprises that consider difficulty in finding cooperation partners for innovation no hampering innovations activities	INNO=1 and (HPAR=0)
HDOM_HIGH	Enterprises that consider market domination by established enterprises highly hampering innovations activities	INNO=1 and (HDOM=3)
HDOM_NU	Enterprises that consider market domination by established enterprises no hampering innovations activities	INNO=1 and (HDOM=0)
HDEM_HIGH	Enterprises that consider uncertain demand for innovative goods or services highly hampering innovations activities	INNO=1 and (HDEM=3)
HDEM_NU	Enterprises that consider uncertain demand for innovative goods or services no hampering innovations activities	INNO=1 and (HDEM=0)
HPRIOR_HIGH	Prior innovations by own enterprise is highly important reason for not to innovate	INNO=1 and (HPRIOR=3)
HPRIOR_NU	Prior innovations by own enterprise is no reason for not to innovate	INNO=1 and (HPRIOR=0)
HMAR_HIGH	No demand for innovations is highly important reason for not to innovate	INNO=1 and (HMAR=3)
HMAR_NU	No demand for innovations is no reason for not to innovate	INNO=1 and (HMAR=0)

3. Activities and expenditure

Code	Label	Rule
INNOACT	Enterprises with innovation activity relating to products or processes	NPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1
RRDIN_YES	Enterprises engaged in in-house R&D activities	INNOACT=1 and (RRDIN=1)
RDENG_CONT	Enterprises engaged in continuous R&D activities	INNOACT=1 and (RRDIN=1) and (RDENG=1)
RDENG_OCC	Enterprises engaged in occasional R&D activities	INNOACT=1 and (RRDIN=1) and (RDENG=2)
RRDIN15	Expenditure in in-house R&D	(from regular data collection only?)
RRDEX_YES	Enterprises engaged in external R&D activities	INNOACT=1 and (RRDEX=1)
RRDEX15	Expenditure in external R&D	(from regular data collection only?)
RMACES_YES	Enterprises engaged in acquisition of machinery, equipment and software	INNOACT=1 and (RMAC=1)
RMACES15	Expenditure in acquisition of machinery, equipment and software	(from regular data collection only?)
ROEK_YES	Enterprises engaged in acquisition of external knowledge	INNOACT=1 and (ROEK=1)
ROEK15	Expenditure in acquisition of external knowledge	(from regular data collection only?)
RTR_YES	Enterprises engaged in training for innovation activities	INNOACT=1 and (RTR=1)
RMAR_YES	Enterprises engaged in activities for market introduction of innovation	INNOACT=1 and (RMAR=1)
RDSG_YES	Enterprises engaged in design activities	INNOACT=1 and (RDSG=1)
ROTHE_YES	Enterprises engaged in other activities	INNOACT=1 and (RPRE=1)
ROTREX15	Expenditures for all OTHER innovation activities	(from regular data collection only?)
EXPTOT15	Total innovation expenditure in 2015	(from regular data collection only?)

4. Enterprises by location of product development

Indicator label	Indicator label Type of innovators INPDT	Detailed rules	Simplified rules (including the codes for the type of innovators)
Enterprises that introduced goods innovation (product innovation)	INPDGD	INPDGD=1	INPDGD=1
Enterprises that introduced services innovation (product innovation)	INPDSV	INPDSV=1	INPDSV=1
Enterprises that developed goods innovation by itself	INPDTG1	INPDGD=1 and INITGD=1	INPDGD=1 and INITGD=1
Enterprises that developed goods innovation together with other enterprises or institutions	INPDTG2	INPDGD=1 and INTOGD=1	INPDGD=1 and INTOGD=1
Enterprises that developed goods innovation by adapting or modifying goods originally developed by other enterprises or institutions	INPDTG3	INPDGD=1 and INADGD=1	INPDGD=1 and INADGD=1
Enterprises that introduced goods innovations developed by other enterprises or institutions	INPDTG4	INPDGD=1 and INOTHGD=1	INPDGD=1 and INOTHGD=1
Enterprises that developed service innovation by itself	INPDTS1	INPDSV=1 and INITSV=1	INPDSV=1 and INITSV=1
Enterprises that developed service innovation together with other enterprises or institutions	INPDTS2	INPDSV=1 and INTOSV=1	INPDSV=1 and INTOSV=1
Enterprises that developed service innovation by adapting or modifying service originally developed by other enterprises or institutions	INPDTS3	INPDSV=1 and INADSV=1	INPDSV=1 and INADSV=1
Enterprises that introduced service innovations developed by other enterprises or institutions	INPDTS4	INPDSV=1 and INOTHSV=1	INPDSV=1 and INOTHSV=1
Enterprises that introduced product innovation new to the market	NEWMAR_YES	(INPDGD=1 or INPDSV=1) and NEWMKT=1	INPDT and NEWMKT=1
Enterprises that introduced product innovation only new to the firm	NEWFRM_YES	(INPDGD=1 or INPDSV=1) and NEWFRM=1	INPDT and NEWFRM=1

5. Enterprises by location of process development

Indicator label	Indicator label Type of innovators INPCS	Detailed rules	Simplified rules (including the codes for the type of innovators)
Enterprises that introduced new methods of manufacturing / producing (process innovation)	INPSPD	INPSPD=1	INPSPD=1
Enterprises that introduced new methods of logistics, delivery, distribution (process innovation)	INPSLG	INPSLG=1	INPSLG=1
Enterprises that introduced supporting activities (process innovation)	INPSSU	INPSSU=1	INPSSU=1
Enterprises that developed process innovation by itself	INPSDV1	(INPSPD=1 or INPSLG=1 or INPSSU=1) and INITPS=1	INPCS and INITPS=1
Enterprises that developed process innovation together with other enterprises or institutions	INPSDV2	(INPSPD=1 or INPSLG=1 or INPSSU=1) and INTOPS=1	INPCS and INTOPS=1
Enterprises that developed process innovation by adapting or modifying process originally developed by other enterprises or institutions	INPSDV3	(INPSPD=1 or INPSLG=1 or INPSSU=1) and INADPS=1	INPCS and INADPS=1
Enterprises that introduced process innovations developed by other enterprises or institutions	INPSDV4	(INPSPD=1 or INPSLG=1 or INPSSU=1) and INOTHPS=1	INPCS and INOTHPS=1

6. Enterprises that developed the innovations itself or together with the other enterprises/institution

Indicator label Type of innovators INPDT	Indicator codes (INDIC_IN)	Detailed rules	Simplified rules (including the codes for the type of innovators)
Enterprises that developed goods innovation by itself	INPDTG1	INPDGD=1 and INITGD=1	INPDGD=1 and INITGD=1
Enterprises that developed goods innovation together with other enterprises or institutions	INPDTG2	INPDGD=1 and INTOGD=1	INPDGD=1 and INTOGD=1
Enterprises that developed goods innovation by adapting or modifying goods originally developed by other enterprises or institutions	INPDTG3	INPDGD=1 and INADGD=1	INPDGD=1 and INADGD=1
Enterprises that introduced goods innovations developed by other enterprises or institutions	INPDTG4	INPDGD=1 and INOTHGD=1	INPDGD=1 and INOTHGD=1
Enterprises that developed service innovation by itself	INPDTS1	INPDSV=1 and INITSV=1	INPDSV=1 and INITSV=1
Enterprises that developed service innovation together with other enterprises or institutions	INPDTS2	INPDSV=1 and INTOSV=1	INPDSV=1 and INTOSV=1
Enterprises that developed service innovation by adapting or modifying service originally developed by other enterprises or institutions	INPDTS3	INPDSV=1 and INADSV=1	INPDSV=1 and INADSV=1
Enterprises that introduced service innovations developed by other enterprises or institutions	INPDTS4	INPDSV=1 and INOTHSV=1	INPDSV=1 and INOTHSV=1
Enterprises that introduced product innovation new to the market	NEWMAR_YES	(INPDGD=1 or INPDSV=1) and NEWMKT=1	INPDT and NEWMKT=1
Enterprises that introduced product innovation only new to the firm	NEWFRM_YES	(INPDGD=1 or INPDSV=1) and NEWFRM=1	INPDT and NEWFRM=1

7. Innovative enterprises involved in innovation cooperation

Indicator label	Indicator label - Type of innovators INNOACT	Detailed rules	Simplified rules (including the codes for the type of innovators)
Enterprises engaged in any type of cooperation	CO_ALL	(INPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1) and (CO=1)	INNOACT and (CO=1)
Enterprises engaged in cooperative arrangements with other enterprises within your enterprise group	C01	(INPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1) and (CO11=1 or CO12=1 or CO13=1 or CO14=1 or CO15=1)	INNOACT and (CO11 =1 or CO12=1 or CO13=1 or CO14=1 or CO15=1)
Enterprises engaged in cooperative arrangements with competitors or other enterprises of the same sector	C02	(INPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1) and (CO41 =1 or CO42 =1 or CO43=1 or CO44=1 or CO45=1)	INNOACT and (CO41 =1 or CO42 =1 or CO43=1 or CO44=1 or CO45=1)
Enterprises engaged in cooperative arrangements with clients or customers from the private sector	C031	(INPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1) and (CO311 =1 or CO312=1 or CO313=1 or CO314=1 or CO315=1)	INNOACT and (CO311 =1 or CO312=1 or CO313=1 or CO314=1 or CO315=1)
Enterprises engaged in cooperative arrangements with clients or customers from the public sector	C032	(INPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1) and (CO321 =1 or CO322 =1 or CO323=1 or CO324=1 or CO325=1)	INNOACT and (CO321 =1 or CO322 =1 or CO323=1 or CO324=1 or CO325=1)
Enterprises engaged in cooperative arrangements with suppliers of equipment, materials, components or soft	C05	(INPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1) and (CO21 =1 or CO22 =1 or CO23=1 or CO24=1 or CO25=1)	INNOACT and (CO21 =1 or CO22 =1 or CO23=1 or CO24=1 or CO25=1)
Enterprises engaged in cooperative arrangements with universities or other higher education institutions	C06	(INPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1) and (CO61 =1 or CO62 =1 or CO63=1 or CO64=1 or CO65=1)	INNOACT and (CO61 =1 or CO62 =1 or CO63=1 or CO64=1 or CO65=1)
Enterprises engaged in cooperative arrangements with Government, public or private research institutes	C09	(INPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1) and (CO71 =1 or CO72 =1 or CO73=1 or CO74=1 or CO75=1)	INNOACT and (CO71 =1 or CO72 =1 or CO73=1 or CO74=1 or CO75=1)
Enterprises engaged in cooperative arrangements with consultants or commercial labs	C10	(INPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1) and (CO51 =1 or CO52 =1 or CO53=1 or CO54=1 or CO55=1)	INNOACT and (CO51 =1 or CO52 =1 or CO53=1 or CO54=1 or CO55=1)
Enterprises engaged in cooperative arrangements with universities, other higher education institutions, Government, public or private research institutes	C11	(INPDGD=1 or INPDSV=1 or INPSPD=1 or INPSLG=1 or INPSSU=1 or INABA=1 or INONG=1) and (CO61 =1 or CO62 =1 or CO63=1 or CO64=1 or CO65=1 or CO71 =1 or CO72 =1 or CO73=1 or CO74=1 or CO75=1)	INNOACT and (CO61 =1 or CO62 =1 or CO63=1 or CO64=1 or CO65=1 or CO71 =1 or CO72 =1 or CO73=1 or CO74=1 or CO75=1)

For other questions and variables not mentioned here the similar logic for tabulating can be used.

It is of course useful to provide also the very basic information on innovators, prevalence of implementing different types of innovations, by
-   size classes
-   NACE classes

And tabulate also some information on non-innovators, like:

Code	Label	
NON_INNO	Non-innovative enterprises	
N_HCOMP	Enterprises that did not have compelling reason to innovate	NON_INNO and N_HCOMP_HBAR=1
N_HBAR	Enterprises that considered innovating but too large barriers	NON_INNO and N_HCOMP_HBAR=2
N_HLDEM_HIGH	Enterprises for which the low market demand was a highly important reason to not innovate	NON_INNO and N_HLDEM=3
N_HLDEM_NU	Enterprises for which the low market demand was not an important reason to not innovate	NON_INNO and N_HLDEM=0
...	...	...