

## HSE Committee

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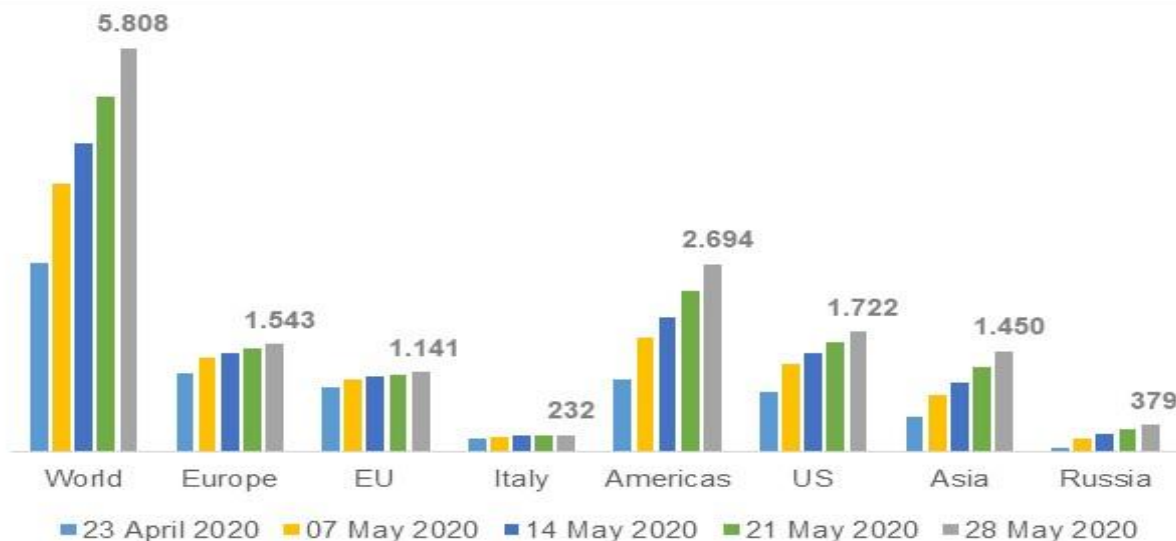
### COVID-19 “coronavirus disease 2019” (SARS-CoV-2)



Update n. 77 - weekly  
Friday 29 May 2020

- Outbreak in the World (slide 3-4)
- Development by Countries (slide 5)
- Focus on EU & UK ( slide 6)
- Focus on Italy – graphs & analysis (slides 7 - 12)
- Italy in Phase 2 – Development: Topics (slide 13)
- Italy in Phase 2 – Insights: Procedures for Accessing (slides 14)
- Italy in Phase 2 – Insights: List (slides 15)

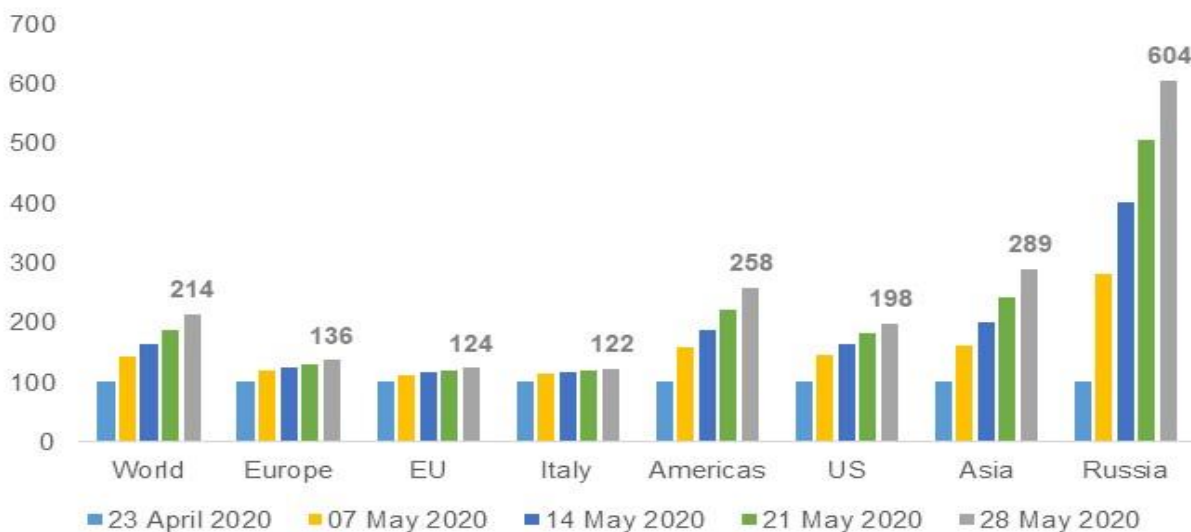




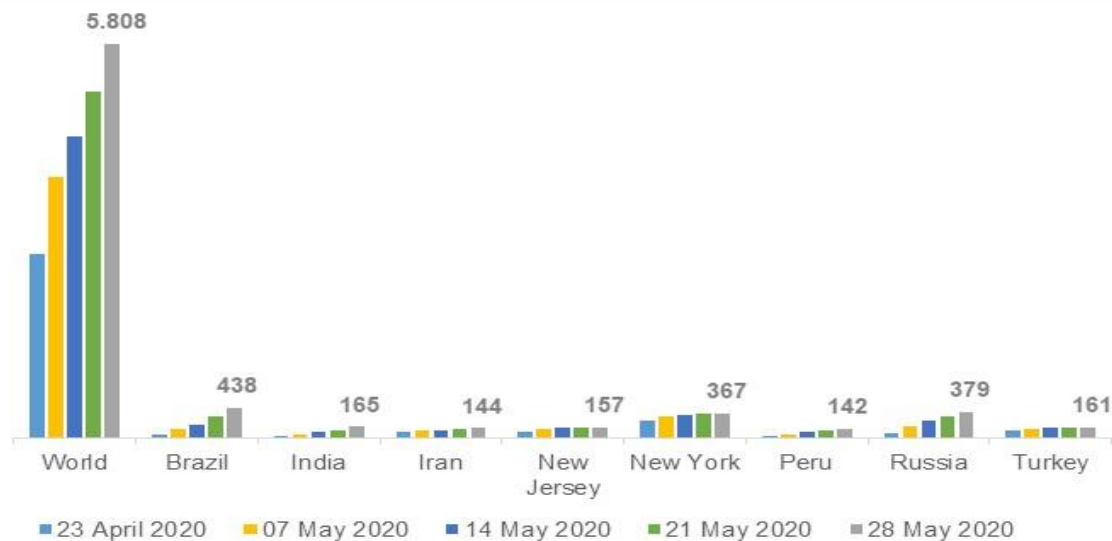
Cumulated number of confirmed cases in the world and in some areas

Date	World	Europe	EU	Italy	Americas	US	Asia	Russia
12 April 2020	1.847	866	733	156	643	555	315	16
23 April 2020	2.709	1.131	924	190	1.042	869	501	63
07 May 2020	3.845	1.341	1.038	216	1.644	1.257	803	177
14 May 2020	4.441	1.423	1.080	223	1.942	1.418	1.001	252
21 May 2020	5.102	1.483	1.111	228	2.303	1.577	1.219	318
28 May 2020	5.808	1.543	1.141	232	2.694	1.722	1.450	379
Cases on 1000 inhabitants	0,7	2,1	2,6	3,8	2,6	5,2	0,3	2,6
% on Wrd @ 28 May 2020	100%	27%			46%		25%	
Δ last week	707	59			391		231	
% on Wrd last week	100%	8%			55%		33%	

Figures in thousands of cases. The 12 April 2020 in the world the peak of daily new confirmed cases has been recorded. Figures for Russia included in those for Asia



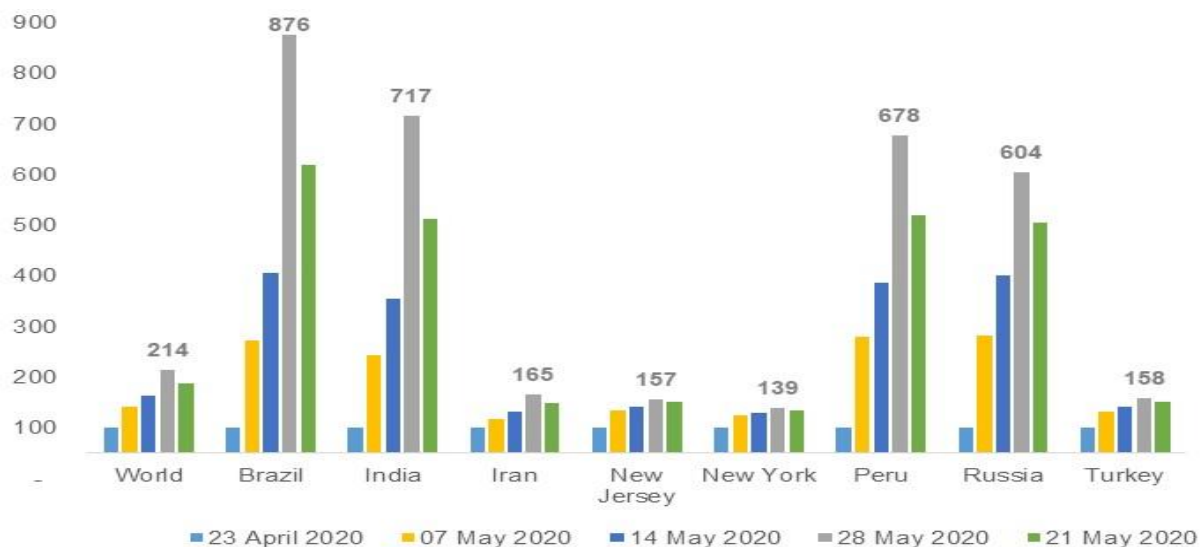
Index numbers of development in the last weeks in the world and in some areas (cases by area @ 24 April 2020 = 100)



Cumulated number of confirmed cases in the world and in some areas

Date	World	Brazil	India	Iran	New Jersey	New York	Peru	Russia	Turkey
12 April 2020	1.847	22	9	72	62	189	8	16	57
23 April 2020	2.709	50	23	87	100	263	21	63	102
07 May 2020	3.845	136	56	103	134	327	59	177	134
14 May 2020	4.441	203	82	115	143	343	81	252	145
21 May 2020	5.102	310	118	129	152	356	109	318	154
28 May 2020	5.808	438	165	144	157	367	142	379	161
Cases on 1000 inhabitants	0,7	2,1	0,1	1,7	17,6	18,6	4,3	2,6	1,9
% on Wrld @ 28 May 2020	100%	8%	3%	2%	3%	6%	2%	7%	3%
Δ last week	707	128	47	15	6	10	33	61	7
% on Wrld last week	100%	18%	7%	2%	1%	1%	5%	9%	1%

Figures in thousands of cases. The 12 April 2020 in the world the peak of daily new confirmed cases has been recorded

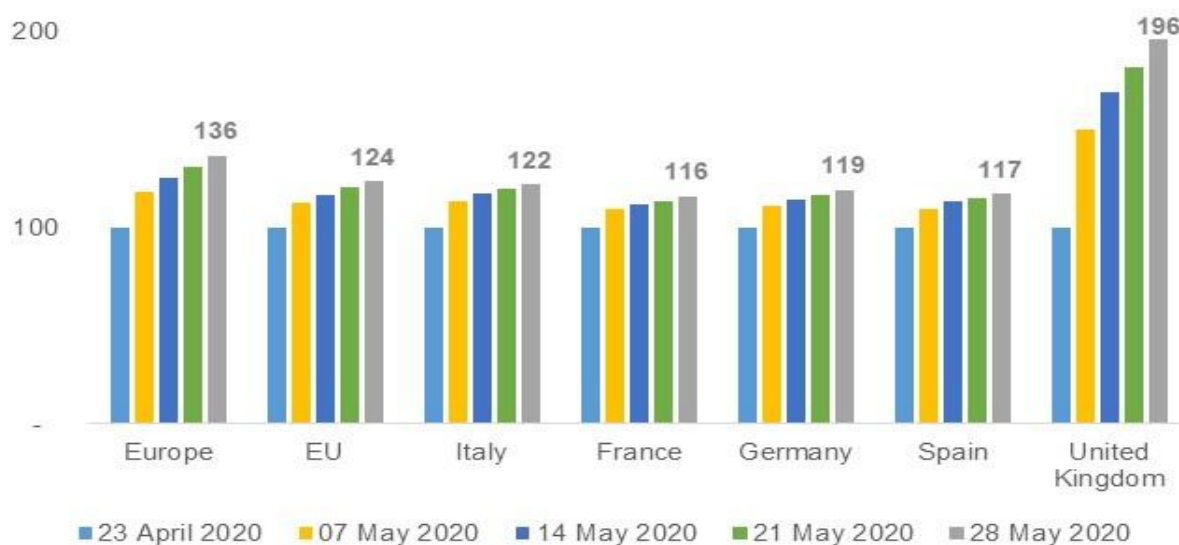
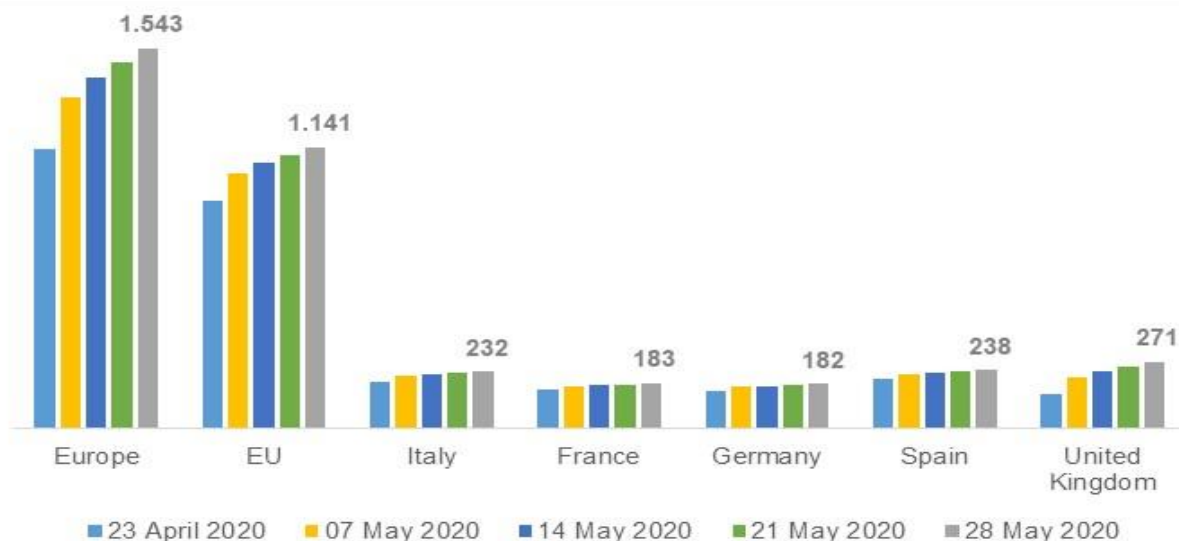


Index numbers of development in the last weeks in the world and in some areas (cases by area @ 24 April 2020 = 100)



#	Country/Region	Confirmed	Deaths	Deaths Ratio	Recovered	Recovered Ratio	Current Cases
<b>12 Countries over 100k cases</b>							
1	US	1.721.753	101.616	5,9%	399.991	23,2%	1.220.146
2	Brazil	438.238	26.754	6,1%	177.604	40,5%	233.880
3	Russia	379.051	4.142	1,1%	150.993	39,8%	223.916
4	United Kingdom	270.508	37.919	14,0%	1.167	0,4%	231.422
5	Spain	237.906	27.119	11,4%	150.376	63,2%	60.411
6	Italy	231.732	33.142	14,3%	150.604	65,0%	47.986
7	France	186.364	28.665	15,4%	67.309	36,1%	90.390
8	Germany	182.196	8.470	4,6%	163.360	89,7%	10.366
9	India	165.386	4.711	2,8%	70.920	42,9%	89.755
10	Turkey	160.979	4.461	2,8%	124.369	77,3%	32.149
11	Iran	143.849	7.627	5,3%	112.988	78,5%	23.234
12	Peru	141.779	4.099	2,9%	59.442	41,9%	78.238
<b>17 Countries between 30k &amp; 100k cases</b>							
1	Canada	89.976	6.982	7,8%	46.961	52,2%	36.033
2	Chile	86.943	890	1,0%	36.115	41,5%	49.938
3	China	84.106	4.638	5,5%	79.371	94,4%	97
4	Mexico	81.400	9.044	11,1%	56.041	68,8%	16.315
5	Saudi Arabia	80.185	441	0,5%	54.553	68,0%	25.191
6	Pakistan	61.227	1.260	2,1%	20.231	33,0%	39.736
7	Belgium	57.849	9.388	16,2%	15.572	26,9%	32.889
8	Qatar	50.914	33	0,1%	15.399	30,2%	35.482
9	Netherlands	46.152	5.922	12,8%	178	0,4%	40.052
10	Bangladesh	40.321	559	1,4%	8.425	20,9%	31.337
11	Belarus	39.858	219	0,5%	16.660	41,8%	22.979
12	Ecuador	38.471	3.313	8,6%	18.425	47,9%	16.733
13	Sweden	35.727	4.266	11,9%	4.971	13,9%	26.490
14	Singapore	33.249	23	0,1%	18.294	55,0%	14.932

#	Country/Region	Confirmed	Deaths	Deaths Ratio	Recovered	Recovered Ratio	Current Cases
15	United Arab Emirates	32.532	258	0,8%	16.685	51,3%	15.589
16	Portugal	31.596	1.369	4,3%	18.637	59,0%	11.590
17	Switzerland	30.796	1.919	6,2%	28.300	91,9%	577
<b>21 Countries between 10k &amp; 30k cases</b>							
1	South Africa	27.403	577	2,1%	14.370	52,4%	12.456
2	Ireland	24.841	1.639	6,6%	22.089	88,9%	1.113
3	Indonesia	24.538	1.496	6,1%	6.240	25,4%	16.802
4	Colombia	24.141	833	3,5%	6.132	25,4%	17.176
5	Kuwait	24.112	185	0,8%	8.698	36,1%	15.229
6	Poland	22.825	1.038	4,5%	10.560	46,3%	11.227
7	Ukraine	22.382	669	3,0%	8.439	37,7%	13.274
8	Egypt	20.793	845	4,1%	5.359	25,8%	14.589
9	Romania	18.791	1.235	6,6%	12.629	67,2%	4.927
10	Israel	16.872	284	1,7%	14.679	87,0%	1.909
11	Austria	16.628	668	4,0%	15.286	91,9%	674
12	Japan	16.598	881	5,3%	14.096	84,9%	1.621
13	Dominican Republic	16.068	485	3,0%	8.952	55,7%	6.631
14	Philippines	15.588	921	5,9%	3.598	23,1%	11.069
15	Argentina	14.702	508	3,5%	4.617	31,4%	9.577
16	Afghanistan	13.036	235	1,8%	1.209	9,3%	11.592
17	Panama	12.131	320	2,6%	7.379	60,8%	4.432
18	Denmark	11.712	568	4,8%	10.378	88,6%	766
19	Korea, South	11.402	269	2,4%	10.363	90,9%	770
20	Serbia	11.300	241	2,1%	6.438	57,0%	4.621
21	Bahrain	10.052	15	0,1%	5.419	53,9%	4.618
16	Countries between 5k & 10k cases	125.752	3.330	2,6%	68.100	54,2%	54.322
21	Countries between 2k & 5k cases	68.009	2.184	3,2%	33.878	49,8%	31.947
99	Countries between 0 & 2k cases	57.506	1.618	2,8%	32.460	56,4%	23.428
186	Total countries in the World	5.808.225	360.293	6,2%	2.415.309	41,6%	3.032.678



Cumulated number of confirmed cases in the European Union and in some most affected countries

Date	Europe	EU	Italy	France	Germany	Spain	United Kingdom
07 April 2020	705	610	136	109	108	142	55
23 April 2020	1.131	924	190	158	153	203	138
07 May 2020	1.341	1.038	216	173	169	221	207
14 May 2020	1.423	1.080	223	177	174	230	233
21 May 2020	1.483	1.111	228	179	179	233	251
28 May 2020	1.543	1.141	232	183	182	238	271
Cases on 1000 inhabitants	2,1	2,6	3,8	2,8	2,2	5,1	4,0
% on Eur @ 28 May 2020	100%	74%	15%	12%	12%	15%	18%
% on EU @ 28 May 2020		100%	20%	16%	16%	21%	
Δ last week	59	30	4	4	3	5	20
% on Eur last week	100%	50%	6%	7%	5%	8%	33%
% on EU last week		100%	12%	13%	11%	16%	

Figures in thousands of cases. The 07 April 2020 in the European Union the peak of daily new confirmed cases has been recorded

Index numbers of development in the last weeks in the European Union and in some most affected countries (cases by area @ 24 April 2020 = 100)

## Italy is one of the most affected areas for confirmed cases and deaths

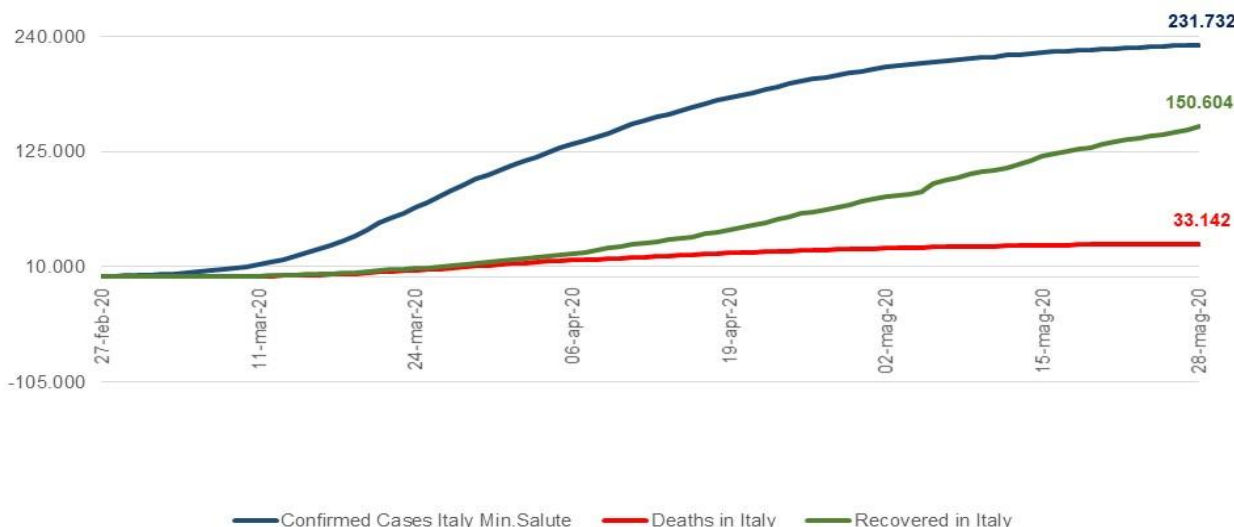
❑ Official national sources indicate 231,732 cases, 33,142 deaths, 150,604 recovered

❑ Outspread is slowing down

Avg. Recovered Ratio – ratio between the number of recovery and confirmed cases: 65,0%

Avg. Death Ratio – ratio between the number of deaths and confirmed cases: 14,3%

Cumulative number of confirmed cases, deaths and healings in Italy



Number of days

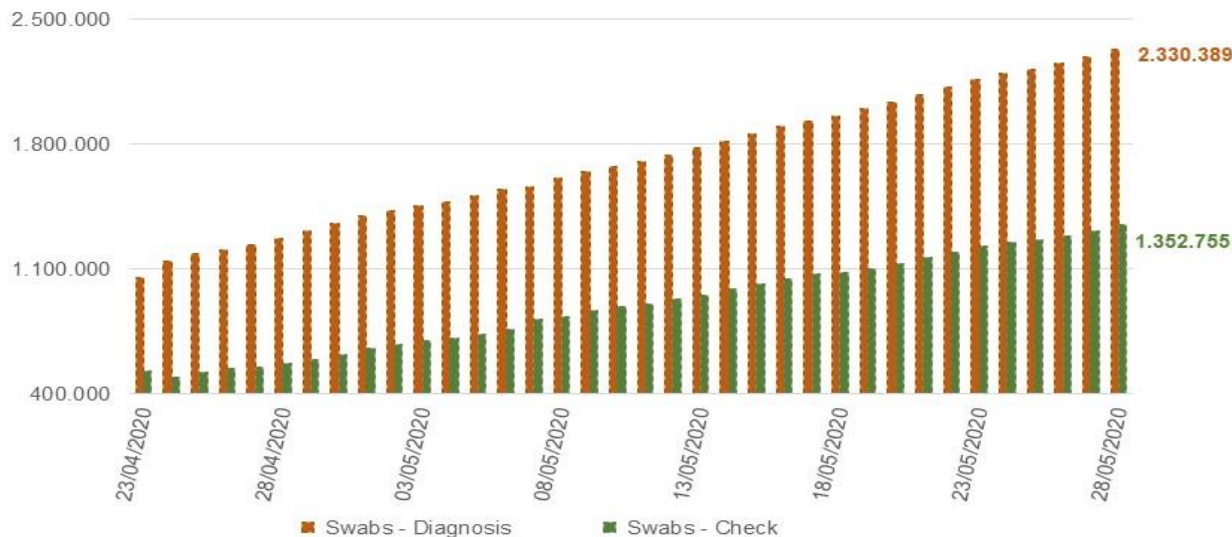
Hundreds of confirmed cases



**Rate of development in Italy:** On the abscissa there are the thresholds in number of cases. The column represent the number of days to reach the threshold. The line represent the evolution of the average daily number (thousands) of cases confirmed between one threshold and another. The evolution and the average number of cases depend on the values actually achieved, which do not coincide with the threshold value itself. First thresholds 10k cases, last, 5k cases

Confirmed Cases	24-mag-20	25-mag-20	26-mag-20	27-mag-20	28-mag-20	Deaths	28-mag-20	Recovered	28-mag-20	Current Cases	28-mag-20
<b>Italia</b>	<b>229.858</b>	<b>230.158</b>	<b>230.555</b>	<b>231.139</b>	<b>231.732</b>	<b>Italia</b>	<b>33.142</b>	<b>Italia</b>	<b>150.604</b>	<b>Italia</b>	<b>47.986</b>
Abruzzo	3.226	3.227	3.230	3.235	3.237	Abruzzo	402	Abruzzo	2.011	Abruzzo	824
Basilicata	399	399	399	399	399	Basilicata	27	Basilicata	338	Basilicata	34
Calabria	1.157	1.157	1.157	1.158	1.158	Calabria	96	Calabria	892	Calabria	170
Campania	4.749	4.755	4.767	4.773	4.777	Campania	410	Campania	3.355	Campania	1.012
Emilia Romagna	27.558	27.587	27.611	27.627	27.701	Emilia Romagna	4.094	Emilia Romagna	19.857	Emilia Romagna	3.750
Friuli Venezia Giulia	3.236	3.240	3.251	3.255	3.262	Friuli Venezia Giulia	333	Friuli Venezia Giulia	2.593	Friuli Venezia Giulia	336
Lazio	7.627	7.643	7.661	7.672	7.693	Lazio	708	Lazio	3.580	Lazio	3.405
Liguria	9.480	9.497	9.550	9.589	9.605	Liguria	1.445	Liguria	7.015	Liguria	1.145
Lombardia	87.110	87.258	87.417	87.801	88.183	Lombardia	15.974	Lombardia	49.296	Lombardia	22.913
Marche	6.714	6.716	6.718	6.718	6.719	Marche	997	Marche	4.376	Marche	1.346
Molise	432	432	432	434	435	Molise	22	Molise	250	Molise	163
Piemonte	30.180	30.228	30.314	30.387	30.445	Piemonte	3.838	Piemonte	20.535	Piemonte	6.072
Puglia	4.458	4.467	4.469	4.479	4.481	Puglia	496	Puglia	2.590	Puglia	1.395
Sardegna	1.356	1.354	1.354	1.355	1.355	Sardegna	130	Sardegna	1.025	Sardegna	200
Sicilia	3.423	3.427	3.430	3.435	3.438	Sicilia	272	Sicilia	2.021	Sicilia	1.145
Toscana	10.062	10.067	10.070	10.082	10.086	Toscana	1.029	Toscana	7.677	Toscana	1.380
Trentino Alto Adige	6.997	6.998	7.008	7.015	7.020	Trentino Alto Adige	753	Trentino Alto Adige	5.652	Trentino Alto Adige	615
Umbria	1.430	1.430	1.431	1.431	1.431	Umbria	75	Umbria	1.323	Umbria	33
Valle d'Aosta	1.178	1.179	1.181	1.181	1.182	Valle d'Aosta	143	Valle d'Aosta	1.016	Valle d'Aosta	23
Veneto	19.086	19.097	19.105	19.113	19.125	Veneto	1.898	Veneto	15.202	Veneto	2.025

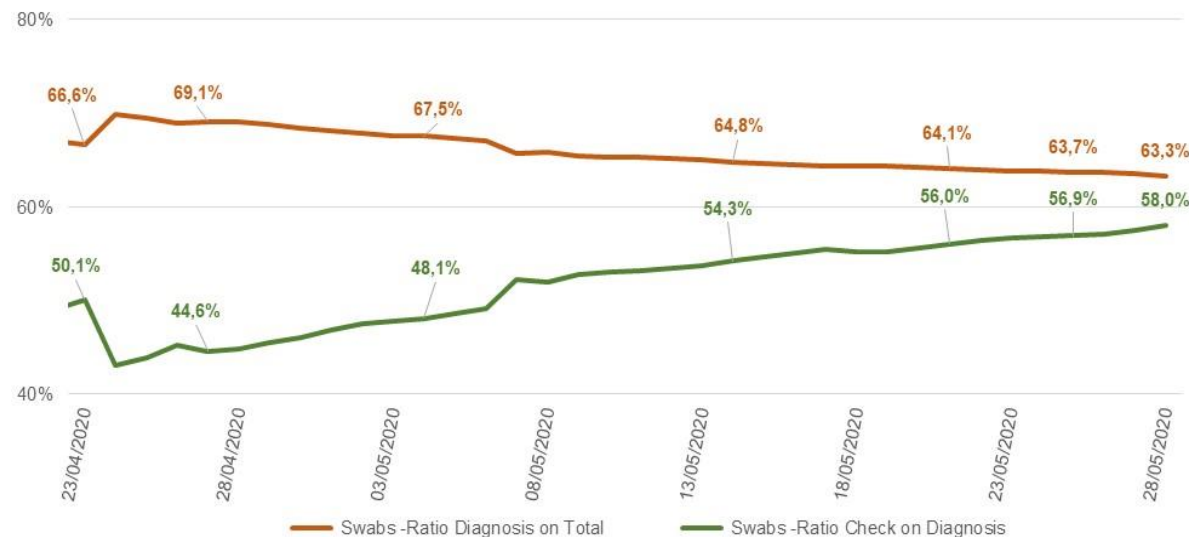




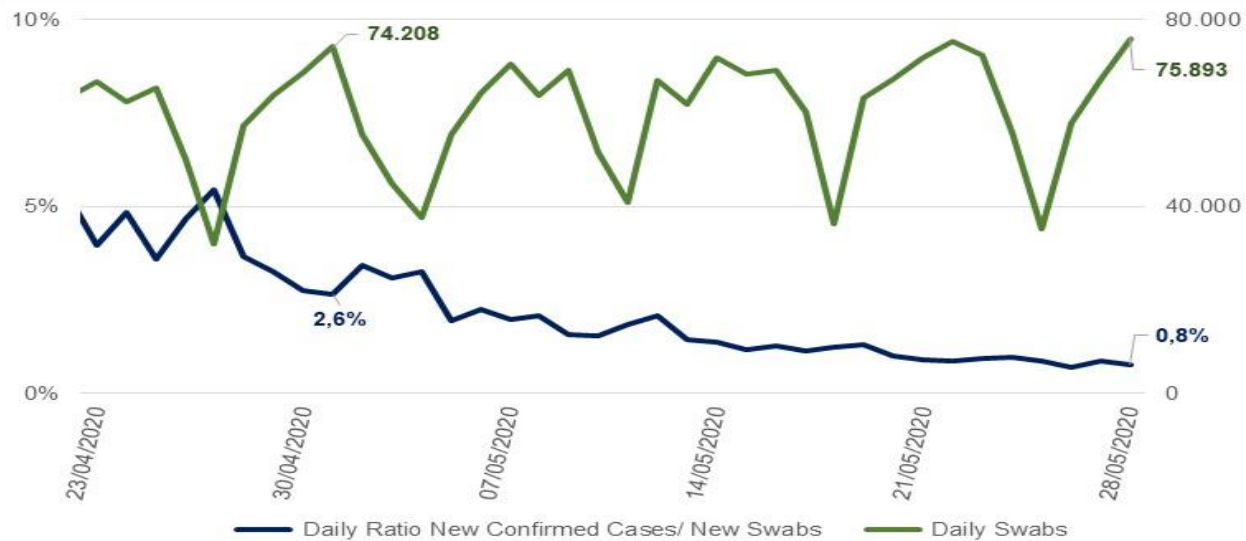
Development of performed diagnosis swabs and performed check swabs – Cumulated

**Performed Swabs and confirmed cases:** Since 19 April 2020 the Civil Protection supplies two pieces of information on performed swabs: «Swabs – total swabs», which reflects the total performed swabs and «checked cases – Total of people checked» which reflects the swabs performed for diagnosis of viral rna presence. The difference between the two figures reflects the swabs performed on people already checked at least once. The development of confirmed cases can be related to «checked cases»

Development of performed diagnosis swabs on total and performed check swabs on diagnosis – Cumulated

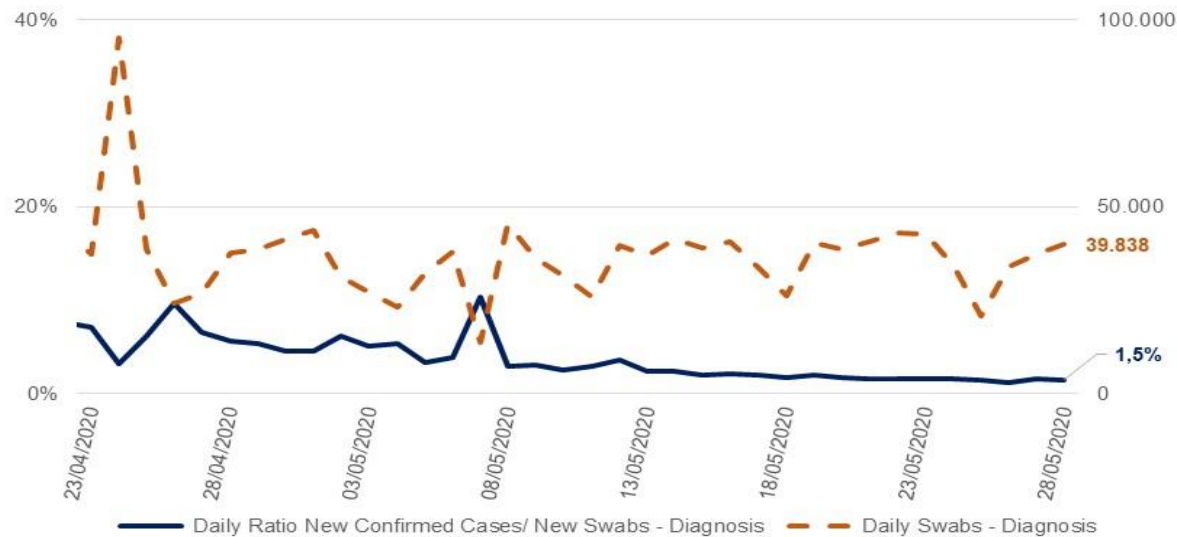


% confirmed cases on performed swabs

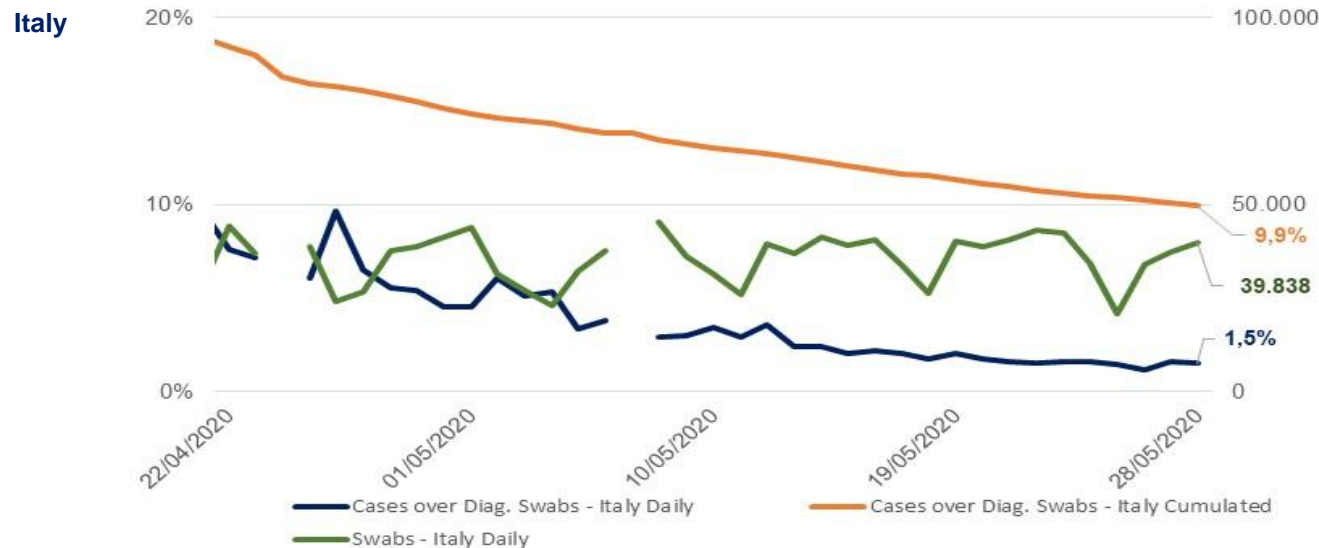


Daily performed swabs

% confirmed cases on performed diagnosis swabs



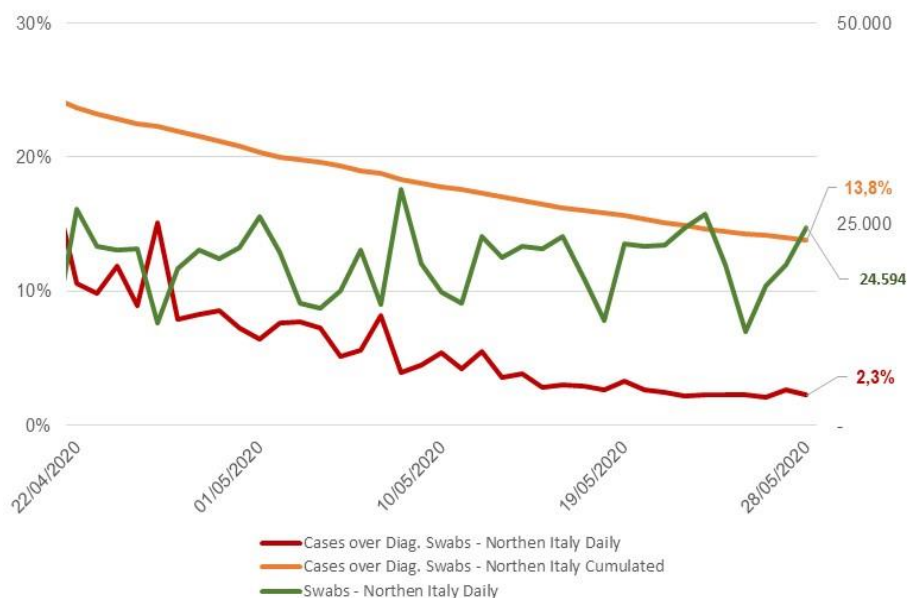
Daily diagnosis swabs performed



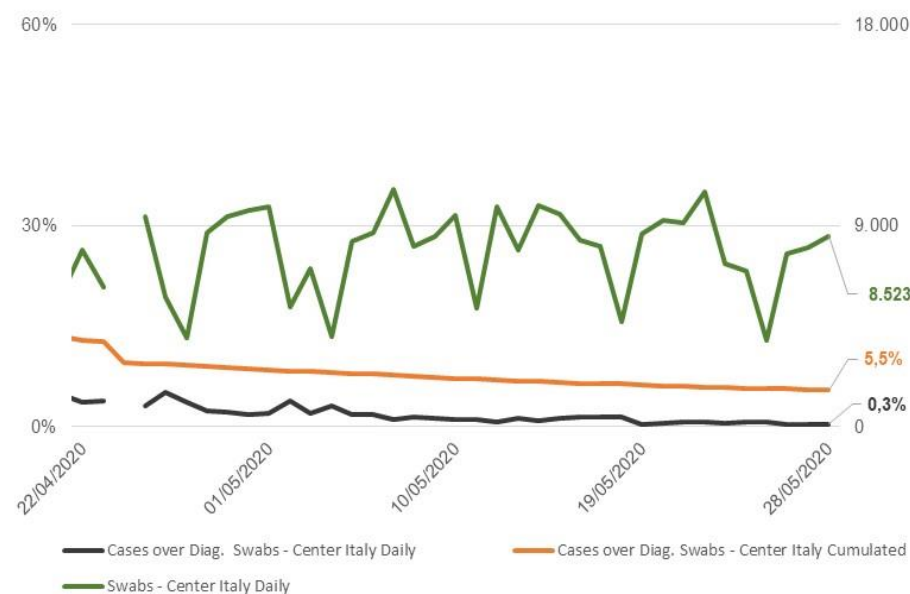
Andamento dei tamponi di diagnosi effettuati ogni giorno, del rapporto giornaliero tra casi riconosciuti e tamponi di diagnosi effettuati e del rapporto tra casi riconosciuti e tamponi di diagnosi effettuati totali per differenti aree geografiche nazionali

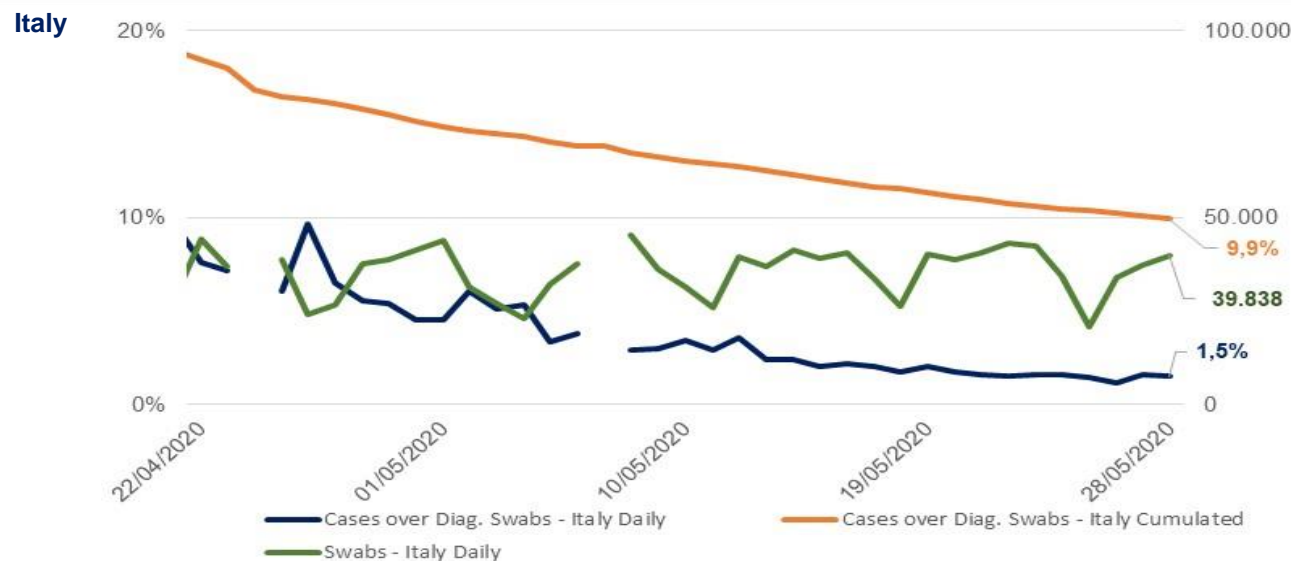
Zone	Confirmed Cases	Total swabs performed	Total diagnosis swabs	Total check swabs
Northern Italy Cumulated	186.523	2.347.846	1.356.202	991.644
Center Italy Cumulated	29.166	728.036	532.228	195.808
Southern Italy Cumulated	11.250	410.159	251.366	158.793
Islands Italy Cumulated	4.794	197.103	169.415	27.688
<b>Italy Cumulated</b>	<b>231.733</b>	<b>3.683.144</b>	<b>2.309.211</b>	<b>1.373.933</b>

**Northern Italy**



**Center Italy**

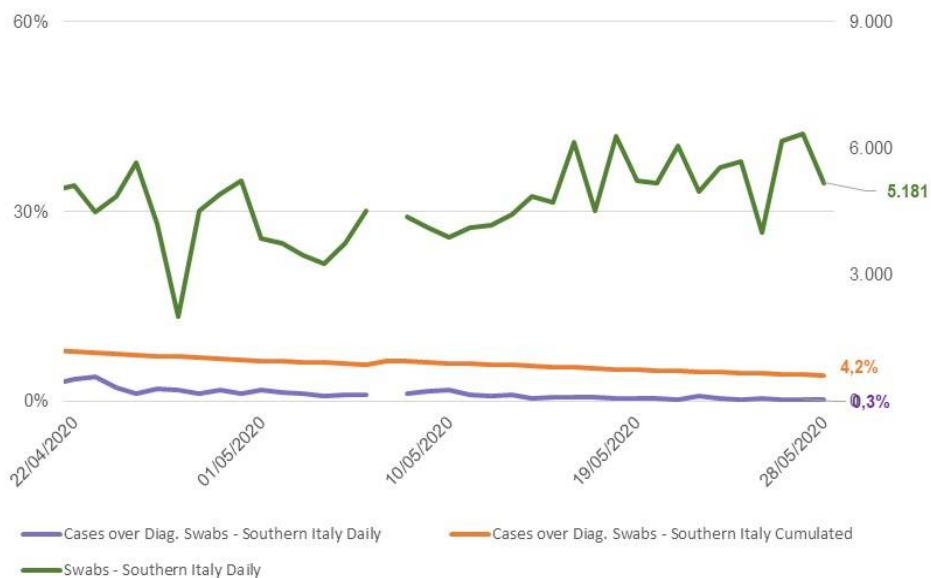




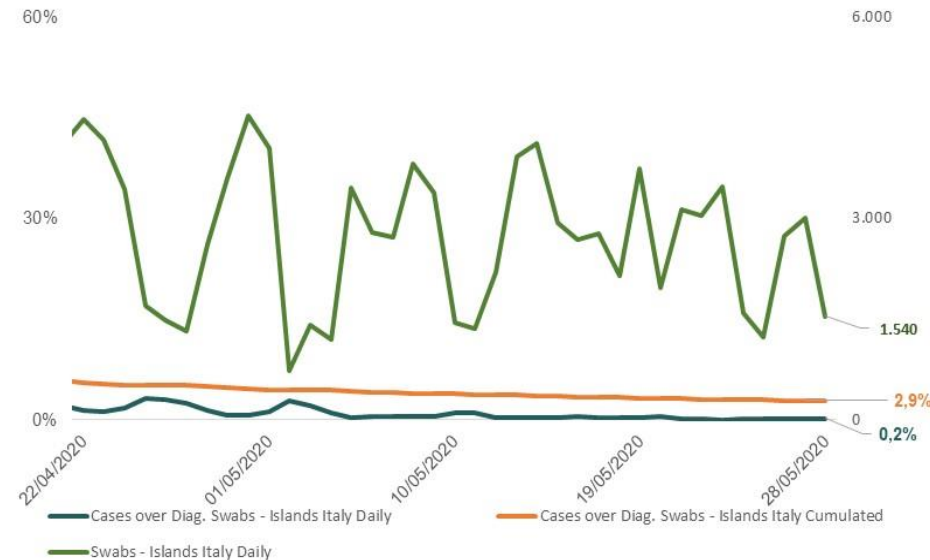
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## Southern Italy



## Italy Islands



The gradual development of activities point out some topics on prevention and management issues

- ❑ **Prevention and Protection:** The development of procedures (*Protocols*) enacted by international and national authorities and adopted by companies to face COVID-19 emergency and to ensure the continuity of the supply must be integrated into the wider process of management of the typical activity risk for the power sector
- ❑ **Workers Screening:** Adopted procedures include screening procedures for checking the health status of employees, even when they are not coming back to work after a period of absence for illness, which can be developed to protect the workers' health and to increase power sector resilience to the spread of the COVID-19 even through diagnosis tests (respecting privacy)
- ❑ **Management:** Return to offices and sites focus on issues such as those related to graduality of the return, commuting, air conditioning and aeration, procedures to use PPEs, social distancing and contacts tracking procedures (respecting privacy)
- ❑ **Travels and interventions by specialised technicians:** Plants management and interventions for maintenance can make the displacement of staff necessary as well as interventions carried out by technician coming from foreign countries addressed to keep plant efficiency in case of failures, malfunctions or in case of programmed periodical maintenance activities



Another important issue in the development of Phase 2 is the procedures for carrying out activities that involve accessing the users' individual homes, which must be defined for the protection of the health of workers who must carry out the intervention and than that of the consumers themselves. In summary, the aspects to be defined and coordinated with the Protocols already adopted by the companies in the sector concern

### ☐ **Access Modalities and Executable Interventions**

- ✓ What information can be acquired by those who perform the intervention also in relation to the emergency health situation and what information must be provided to the consumer
- ✓ How to distinguish the procedures between interventions necessary for the security and continuity of the supply and other interventions

### ☐ **Organization**

- ✓ How many technicians should intervene
- ✓ Which Personal Protective Equipment should be used by those who perform the intervention and by the consumer
- ✓ How to manage the presence in the premises where the intervention is performed
- ✓ What sanitation procedures (ex-ante and ex-post) should be implemented

### ☐ **Relation**

- ✓ What methods to adopt to ensure compliance with the privacy rules
- What procedures to adopt to certify and verify the execution of the intervention
- What commitments fall to those who perform the intervention and which are the responsibilities of the consumer

Brief comments on insights carried out are reported in the following slide-shows:

❑ **Protocols:** Update #72 of 12 May 2020 and #73 of 15 May 2020

❑ **Tracing:** Update #74 of 19 May 2020 and #75 of 22 May 2020

❑ **Frail Workers:** Update #76 of 26 May 2020

❑ **Procedures for Accessing:** Update #77 of 29 May 2020



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