

Supporting  
European  
Aviation



**PARTNERING**  
FOR  
RECOVERY

**Ad Hoc Recovery Co-ordination Cell**  
**14<sup>th</sup> April 2020**

# Network Operations Plan 2020 Recovery Plan



## *Partnering for Recovery*

### **NDOP agreed**

- that anticipation of traffic recovery shall be considered and that NM shall start developing the first elements of an effective COVID-19 Recovery Plan in close cooperation with all operational stakeholders; the timing of such activity will take into account the evolution of the crisis;
- that NM will work closely with the airspace users to take into account the latest traffic evolution and to have a daily update of the traffic demand outlook.

**NMB endorsed** the NDOP/25 conclusions.

**NMB noted and supported** the actions taken by the operational stakeholders and the Network Manager on business continuity and the NOP recovery plan.

# *Partnering for Recovery*

## ***EACCC Teleconference with State Focal Points Conclusions***

### **NOP COVID-19 Business Continuity Plan**

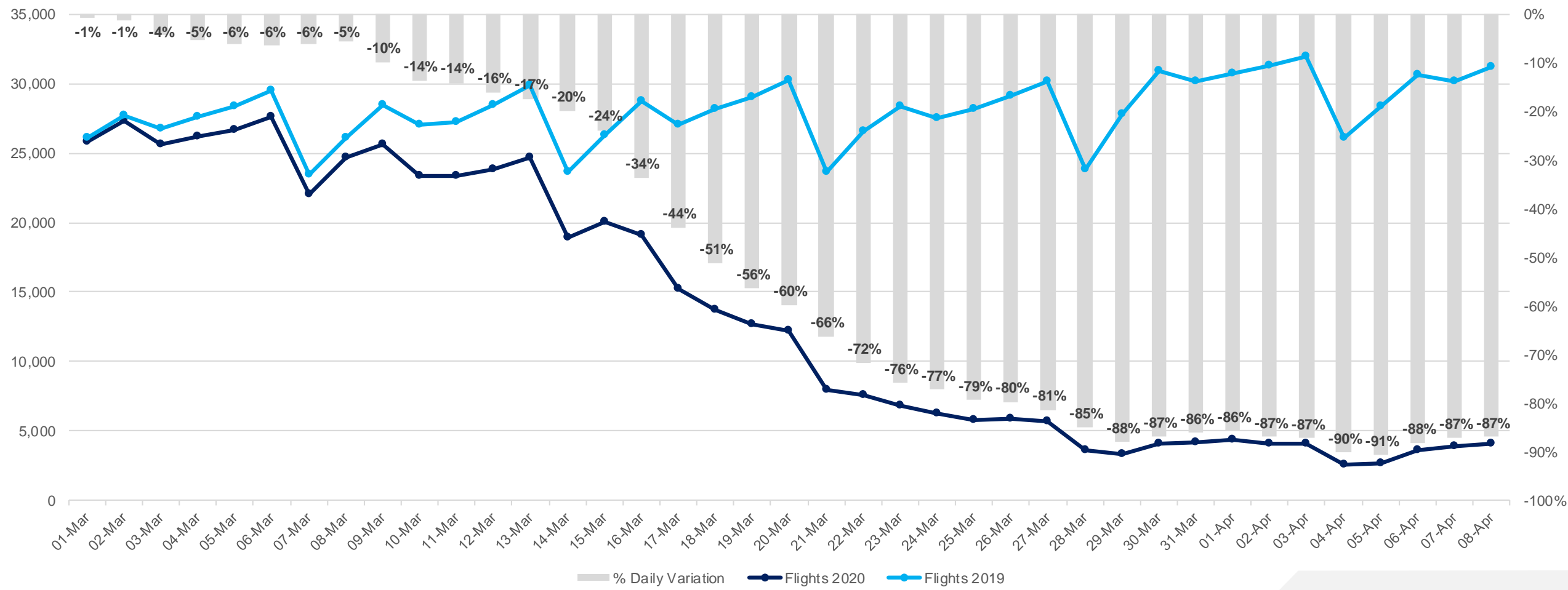
- Baseline of the future evolutions of the recovery phase

### **NOP 2020 Recovery Plan importance recognized in support of anticipated planning**

- Crucial enabler to anticipate traffic demand and matching capacity
- Essential contribution from states to EACCC through State Focal Points(SFPs)
  - State Focal Points are subsequently urged to respond weekly, or
  - Whenever any additional/new intelligence becomes available

## EUROCONTROL Network Daily Variation (Flights)

Compared with equivalent days in 2019



# ***NOP Business Continuity Plan – as a starting point***



**Monitoring  
of business  
continuity**



**Continuous  
update used  
as a baseline  
for the  
recovery plan**

**10 versions  
published**



**Work  
initiated by  
NM on Initial  
Recovery  
Plan**

# *NOP 2020 Recovery Plan Scope*

## *Partnering for the Recovery Phase*



- **Safe** and **smooth** recovery phase for all operational stakeholders
- One **single consolidated** and **consistent** source of information for the European ATM Network
- **Robust coordination** process
- **Effective** planning, execution, assessment and reporting
- Ensuring **“close to zero”** ATFM delay
- Facilitating **optimum** trajectories

NOP structure **adapted to the COVID-19 Crisis**



**4-week** rolling document

**Weekly updates**

- Traffic demand
- Capacity delivery
- EACCC State Focal Points inputs
- Network and local performance assessment



To be **continuously updated** until traffic stabilisation is reached

Building-up on the **NOP Business Continuity Document**



# *NOP 2020 Recovery Plan Content*

## *Traffic Demand*



- **Essential input** for the Recovery phase
- **Ensuring the ability for the airlines** to provide constantly the requested input with no additional overload **during a period of limited resources**
- A **single**, **consistent** and **coordinated** data source at European ATM Network level
  - To allow a complete network view and network impact assessments to be made

# *NOP 2020 Recovery Plan Content*

## *Traffic Demand*



- Based on weekly updates of airline schedules, airport slots, any other information provided by AOs or other sources
  - Forthcoming information required from AOs and airports
  - Organised individually with airlines and airspace users associations
  
- Traffic demand will be calculated per ACC and for major airports and Origin/Destination Zones and published in the rolling NOP 2020 Recovery Plan for a 4 weeks rolling period
  - Traffic outlook, including high and low assumptions
  - Observations on anticipated evolutions per major traffic flows
  
- Confidentiality and data depersonalisation ensured

# ***NOP 2020 Recovery Plan Content***

## ***ANSP Information***



- **Per ACC/TMA (and 4 rolling weeks period)**
  - Planned and max possible opening scheme
  - Sector capacity reductions if any during the recovery
  - Availability of other ops support staff
  - Major projects and special events planning
  - Other relevant information (availability of infrastructure, etc)
  
- Weekly/Continuous updates to be received **by each Friday COB**

# *NOP 2020 Recovery Plan Content*

## *Airport Information*



- **Similar information from airports** like for the ACCs, including
  - Intentions on the re-opening of airports for passenger flights
  - Capacity reductions if any during the recovery
  - Major projects and special events planning
  - Other relevant information (availability of infrastructure, not necessarily just ATM related)
  
- Information gathered through the Airport Corner
  
- Weekly/Continuous updates to be received **by each Friday COB**

# ***NOP 2020 Recovery Plan Content***

## ***EACCC State Focal Points Information***



- **EACCC State Focal Points (SFP) to provide:**
  - Advanced and latest info on lifting/relaxing national general restrictions and passenger/flights restrictions
  - Formal NOTAMs with harmonized text in field E
  
- **SFP will receive questionnaire** from EACCC Secretariat providing more detail on the information needed
  - Some information can be marked by SFP as confidential for NM only and it will be considered in the traffic forecast
  
- **SFPs will respond:**
  - Weekly, and
  - Whenever any additional/new intelligence becomes available

# *NOP 2020 Recovery Plan Content*

## *Safety Information*



- Based on information coordinated with the Safety Team
- Current ATCO licenses status for each ANSP
- Safety Argument preparation for the Recovery Phase

## **Chapter 4 – Overall Context and Operational Requirements**

---



- Summary of the EACCC inputs
- General outlook of the COVID-19 NOTAM information
- Network traffic forecast, including visualisation and observations for traffic flows and axes

## **Chapter 6 – Plans at local level**

---



- Summary of the actions at local level for ACCs and Airports
- Summary of ATCO licenses situation and safety argument actions for the recovery phase

## Chapter 7 – Overview of Major Projects and Special Events



- Overview of Special Events with significant ATM impact
- 2020 Individual Special Events and their handling from a network perspective
  - Events cancelled / postponed due to COVID
  - 2020 Planned events
- 2020 ATM system changes, major projects, major airspace changes
  - Events cancelled / postponed due to COVID
  - 2020 Planned events
- 2020 Major Military Exercises
  - Events cancelled / postponed due to COVID
  - 2020 Planned Events

Important to ensure **synchronisation** and **avoid accumulation of events/major projects** over a short period of time

### Chapter 9 – Outlook of Network Operational Performance - ACCs

---



- Post-ops performance analysis from the previous week
- En-route performance outlook based on the higher value of expected traffic demand and planned/maximum sector openings.
- For each ACC, NM assesses the planned/maximum sector openings:
  - If planned sector openings are sufficient, no need to update the capacity plans
  - If planned sector openings are not sufficient, but maximum sector openings are sufficient, the ANSPs should revise the planned sector openings towards the maximum sector openings
  - If maximum sector openings are not sufficient, additional measures implemented to mitigate the impact

Visualisation provided for all ACCs

## **Chapter 9 – Outlook of Network Operational Performance - Airports**

---



- Post-ops performance analysis from the previous week
- Airport performance outlook based on the higher value of expected traffic demand and planned airport capacity
- For each airport included, NM assesses the performance outlook

## Chapter 10 – Bottleneck Areas and Mitigation Solutions

---



### Local level

- For each of the potential bottleneck areas identified in chapter 9 (ACCs and airports), mitigation solutions proposed at local/network level.
- Description of the main contributors to the foreseen lack of capacity, and the measures proposed by the Network Manager to further enhance operational performance or to mitigate capacity demand imbalance at local level

### Network level

- Additional measures agreed at network level
- Cancellation of the eNM/S2020 measures
- Continuation of the RAD relaxation approach
- Airport actions (curfews, cargo operations, etc.)
- Consistent good operational and technical practices

### Annex 1 – Individual ACCs Annexes



- Traffic Demand

Examples

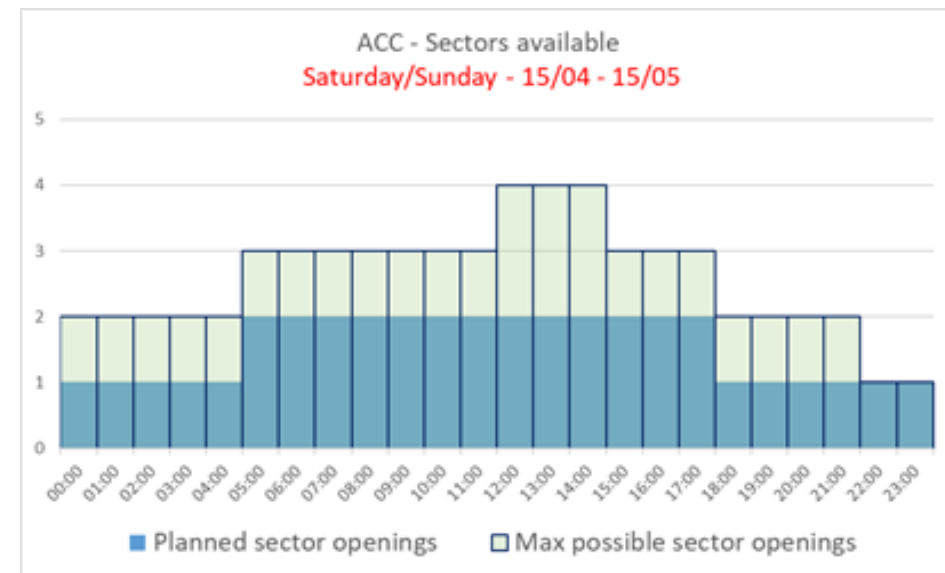
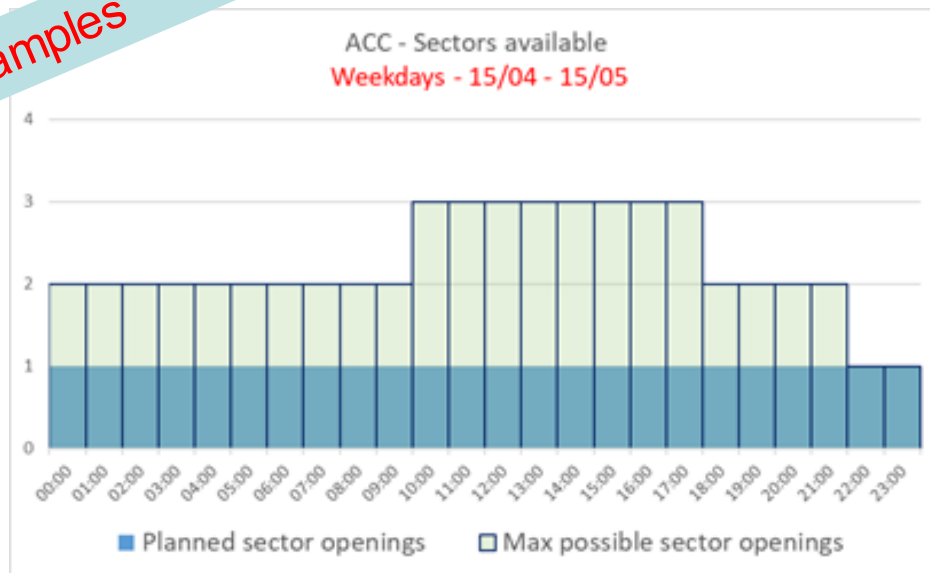
Week 13/04/2020-19/04/2020 – Number of flights						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
200-300	200-300	200-300	200-300	300-400	300-400	300-400
Week 20/04/2020-26/04/2020 – Number of flights						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
300-400	300-400	300-400	300-400	300-400	400-500	400-500
Week 27/04/2020-03/05/2020 – Number of flights						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
400-500	400-500	400-500	400-500	400-500	400-500	400-500
Week 04/05/2020-10/05/2020 – Number of flights						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
400-500	600-700	600-700	600-700	600-700	600-700	600-700

### Annex 1 – Individual ACCs Annexes



- Opening Schemes – rolling 4 weeks view

Examples



### Annex 1 – Individual ACCs Annexes



- **Sector capacities**
  - No reduction in sector capacities.
  - Sector capacities reduced by x% from xx/xx/2020 to xx/xx/2020
- **Availability of support to operations staff**
  - No limitations.
- **Additional information (e.g. availability of technical infrastructure, other constraints to be highlighted, etc.)**
- **Special events and major projects**
- **NM Assessment**
  - Planned sector openings are sufficient on xxx.
  - Maximum sectors need to be open on xxx.
  - Not enough sectors on xxx.

## Annex 2 – Airports



- **Based on the information collected through the Airport Corner**
  - planned capacity evolutions as soon as traffic restrictions are indicated as being gradually released.
  - expected causes, bottlenecks or constraints leading to a reduction of capacity
  - qualitative information about
    - cargo or commercial flight restrictions
    - national or regional restrictions
    - parking restrictions
    - potential of fire cover category
    - turnaround restrictions
    - impact on operations due to ground handling

# ***NOP 2020 Recovery Plan Output Production Plan and Deadlines***



**Weekly updates  
4 week outlook**



**Revised NOP 2020  
Recovery Plan published  
every Friday afternoon**



**Outlook reviewed at Ad Hoc  
Recovery Coordination Cell  
Teleconference Monday Afternoon**

# ***NOP 2020 Recovery Plan Output Production Plan and Deadlines***



Updates from operational stakeholders and EACCC State Focal Points indicated below

<b>Action</b>	<b>Date</b>	<b>Who</b>
<b>ANSPs to send their plan to NM for the 5 following weeks</b>	By Friday COB	ANSPs
<b>Airports to send their plan to NM for the 5 following weeks</b>	By Friday COB	Airports
<b>Input from EACCC State Focal Points</b>	By Wednesday COB	EACCC State Focal Points
<b>Traffic expectations at network, ACC and airport level covering 4 weeks</b>	Monday/Thursday	NM
<b>NM Assessment of ACC plans</b>	Monday/Thursday	NM
<b>NM Assessment of airport plans</b>	Monday/Thursday	NM
<b>Weekly NOP publication</b>	Friday	NM

# *NOP 2020 Recovery Plan Output Production Plan and Deadlines - First Edition*



- **First edition to be published by 30 April 2020**
  - With only weekly updates afterwards, unless major changes
- Information from ANSPs and airports to be provided **at the latest by Friday 24 April 2020**
- The first information set from ANSPs and airports to cover the period **4 May-31 May 2020**
  - Traffic outlook will cover the same period
- Detailed requests and explanations will be sent before 17 April 2020
  - Failure in delivery of the information will delay the inclusion of the data to the next week and jeopardize the process



# *NOP 2020 Recovery Plan Output Production Plan and Deadlines - First Edition*



- Keep timeline to ensure that the process is in place when the recovery starts
- Mock-up under finalization – to be sent out during the week
- NOP Business Continuity Plan to be stopped **as from 30 April 2020** as all information will be covered by the NOP 2020 Recovery Plan



# *NOP 2020 Recovery Plan*

## *Working in Partnership*



- Developed in partnership with **all concerned operational stakeholders** through **an iterative process**
- **Constantly updated** based on the inputs received from all the concerned operational stakeholders
- Available on the public **Network Operations Portal** and shared regularly with the **NDOP** and **NMB** members

*NOP 2020 Recovery Plan*  
*Partnering for the recovery phase*

