HungaroControl
Hungarian Air Navigation Services Pte. Ltd. Co.

Interfacing with the NSA - *a constructive partnership*

European ATM Safety Conference

29 February 2012, Limassol-Cyprus

Kornél Szepessy
Chief Executive Officer
HungaroControl

Brief Overview of the Hungarian ATM Environment

Ministry of National Development *the regulator*

- DGCA

Transportation Safety Bureau *the investigating body*

National Transport Authority Aviation Authority (civil/military) *CAA*

- CIVIL AVIATION DIVISION
  - Flight safety department
  - NSA department

Financing of NSA

- ✓ route charges
- ✓ governmental budget

Companies

the regulated actors

- MANUFACTURE/MAINTENANCE VENTURES
- AIRPORTS
- AIRLINES
- AIR NAVIGATION SERVICES
  - HungaroControl Pte. Ltd. Co.

2

HungaroControl
Hungarian Air Navigation
Services Pte. Ltd. Co.

1. **Certification/Oversight/Safety regulatory audits**

   ▪ **ANSP**
   - Verification of compliance with safety regulatory requirements
   - Certification
   - Safety oversight of changes to functional systems

   • ATCO licensing
   • Monitoring of safety performance

   ▪ **ANS training organisations**
   - Certification
   - Monitoring and auditing training systems and activities

2. **Issue Safety directives if needed**

HungaroControl
Hungarian Air Navigation
Services Pte. Ltd. Co.

Delivering air navigation services in the Hungarian airspace

- Separated from airport management in 2002

- As of 2007 HungaroControl operates as an independent business entity, with 100% ownership of the Hungarian State

- Annual traffic is over 600.000 movements

- Annual turnover is over € 100 million

- Number of employees 700 including 200 ATCOs

- Number of minutes delay per flight: 0

- Unit rate ~ € 40, one of the lowest in Europe

HungaroControl
Hungarian Air Navigation
Services Pte. Ltd. Co.

1 Safety

2 Training programmes and institutions

3 R & D

4 Performance plan

5 Certification

6 FAB activities

HungaroControl
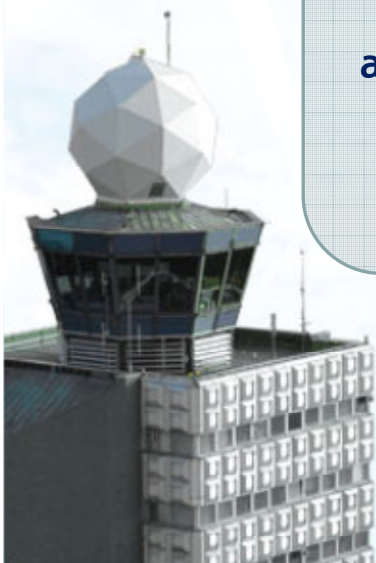Hungarian Air Navigation
Services Pte. Ltd. Co.

The **representative of the NSA Department of NTA AA**
is an **invited member** of the HungaroControl Safety Board (SB)

The SB decides strategic questions regarding the development of the **SMS and the Safety Culture** of the ANSP

The SB **monitors the performance** of HungaroControl in respect of **Safety**

HungaroControl
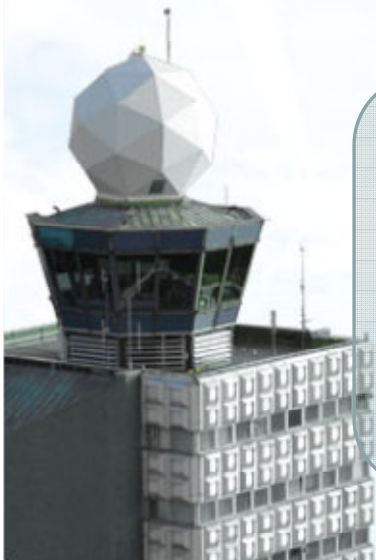Hungarian Air Navigation
Services Pte. Ltd. Co.

Building new technology for ANS

- New building – OPS ROOM

- Full replacement of the whole MATIAS system hardware platform and software development

- New consoles for ATCO positions

- New radio system

1. Notification of CAA/ NSA about preparation and installation (of ANS III);
2. Conditions of regulatory approval: FAT data, SAT results, training documents, safety case etc.

HungaroControl
Hungarian Air Navigation
Services Pte. Ltd. Co.

Since 2002 HungaroControl runs training centre for ATS and also runs training programs for ATCOs from ab initio courses to conversion trainings, all approved by the CAA

CAA licensed the training programme and the institution

HungaroControl base

Entry Point North support

Entry Point Central is an **international ATS academy** in Budapest
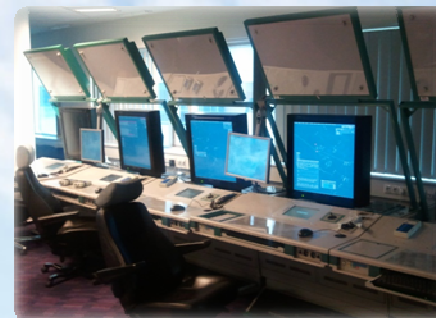founded by HungaroControl and Entry Point North in 2011.

8

HungaroControl
Hungarian Air Navigation
Services Pte. Ltd. Co.

**Centre of Research, Development and Simulation – CRDS
approved by CAA**

▪ **Real-time simulation (RTS)**
- Validation services
- Future ATM concepts
- Airspace proposals
- ATM system validation
- New working methods and ATC procedures
- Prototyping possibilities

▪ **Training**
- Refresher sessions
- GENSPACE

▪ **Human factors services**
- E-OCVM based validation
-          Case based approach
-          Tailor made experimental procedures
-          Comprehensive simulation report

**These activities might contribute to the safe implementation
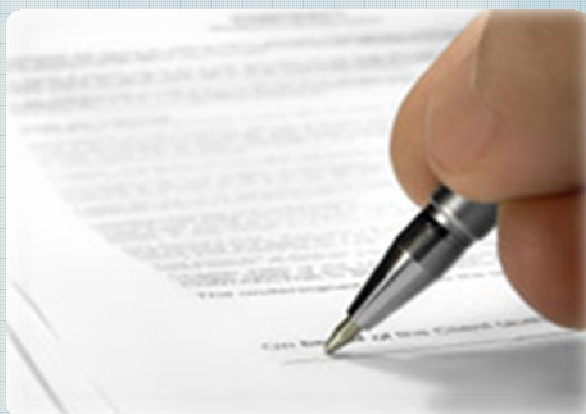of FAB CE on both ANSPs' and CAAs' sides**

Planning the Performance

The **NSA** and **HungaroControl experts** cooperated to develop and finalise the **Hungarian National Performance Plan.**

Perf

The **Hungarian Authority** not only considered the arguments of the ANSP and fitted them into the National Performance Plan but **represented them in front of the Performance Review Board.**

10

Ways to improve our partnership 1

Notification of safety related changes

- Develop direct online NSA access to HungaroControl's safety assessment database

More and structured NSA/ANSP meetings

- Involvement/invitation of the NSA staff to risk management workshops at the ANSP
- Regular safety management meetings between the ANSP Safety Director and heads of Safety and NSA departments of NTA AA

HungaroControl
Hungarian Air Navigation
Services Pte. Ltd. Co.

Ways to improve our partnership 2

New consultation opportunity

- IANS NSA Training Initiative courses follow-up consultations/
  discussions among NTA AA and ANSP experts
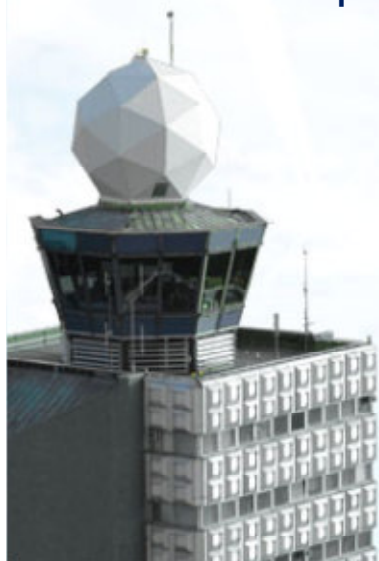 to harmonise the NSA/ANSP interpretation
  of the requirements

Ways to improve our partnership 3

Co-operation in the certification process

- Implement procedures validated by the NSA enabling HungaroControl to perform equipment tests and validations for the NSA.
These procedures may prove the compliance of a new ATM ground equipment with the SES interoperability requirements.

HungaroControl
Hungarian Air Navigation
Services Pte. Ltd. Co.

N S A

A N S

S A N

NSA + ANS P(artnership) = SAN
Safe Air Navigation

HungaroControl
Hungarian Air Navigation
Services Pte. Ltd. Co.

Thank you for your attention!