AIR TRAFFIC MANAGEMENT & AIRPORT SYSTEMS
LEADING EUROPEAN IT & DEFENSE SYSTEMS COMPANY

- $3,600 M revenue
- 29,000 professionals
- Over 100 countries
- €500 M invested in R&D in three years

<table>
<thead>
<tr>
<th>Sector</th>
<th>Revenue Share</th>
</tr>
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<tbody>
<tr>
<td>Telecom &amp; Media</td>
<td>10%</td>
</tr>
<tr>
<td>Financial services</td>
<td>13%</td>
</tr>
<tr>
<td>Public Administration &amp; Healthcare</td>
<td>14%</td>
</tr>
<tr>
<td>Energy &amp; Industry</td>
<td>16%</td>
</tr>
<tr>
<td>Transport &amp; Traffic</td>
<td>18%</td>
</tr>
<tr>
<td>Security &amp; Defence</td>
<td>29%</td>
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</tbody>
</table>
FOREFRONT TECHNOLOGY SUPPLIER FOR ATM/CNS AND AIRPORTS

- Supplying ATM systems for more than 30 years
- Extensive suite of products and demonstrated integration capabilities:
  - More than 1000 installations in over 85 countries
  - World leader for FDP with the support of leading European ANSPs (MUAC & iTEC-Aena/DFS/NATS)
  - More than 320 Mode S Transmitters
  - Over 235 radar systems
  - Over 190 automation systems
  - Over 900 navaids
- Global support to existing installations
- R&D commitment
  - Leading member of SESAR Joint Undertaking
  - Product roadmap for growing through technical excellence
GLOBAL PRESENCE

**AMERICA**
- Argentina
- Belize
- Bolivia
- Canada
- Chile
- Colombia
- Costa Rica
- Ecuador
- El Salvador
- Guatemala
- Guyana
- Honduras
- Jamaica
- Nicaragua
- Panama
- Paraguay
- Peru
- Uruguay
- USA

**EUROPE**
- Albania
- Austria
- Bosnia
- Germany
- Greece
- Lithuania
- Macedonia
- Netherlands
- Norway
- Poland
- Portugal
- Russia
- Spain
- Slovakia
- United Kingdom
- Ukraine
- Turkey

**AFRICA & MIDDLE EAST**
- Algeria
- Angola
- Botswana
- Burundi
- Cape Verde
- Egypt
- Ethiopia
- Iran
- Iraq
- Jordan
- Kenya
- Lebanon
- Lesotho
- Libya
- Morocco
- Nigeria
- Oman
- Palestine
- Saudi Arabia
- Swaziland
- Tunisia
- United Arab Emirates
- Uganda
- Zambia

**ASIA**
- Afghanistan
- Antarctica
- Australia
- Bhutan
- China
- Cook Islands
- India
- Indonesia
- Japan
- Hong Kong
- Malaysia
- Maldives
- Mongolia
- Nauru
- Nepal
- New Zealand
- Papua New Guinea
- Philippines
- Singapour
- South Korea
- Thailand
- Vanuatu
- Western Samoa
Indra is a global player with systems integration capabilities, a complete IT Airport Systems Suite, comprising own and partners’ COTS products, and tailor made solutions.
ATM/CNS OFFERING

Not exhaustive

SACTA

VAFORIT

Maastricht Eurocontrol

iTEC-eFDP

AirCon 2100

TWR Integrated Sys.

ATC Simulation

ADS / CPDLC

PSR/MSSR/Mode S

SMR / A-SMGCS

VCCS

Nav aids
SACTA: INTEGRATED ATC SYSTEM FOR SPANISH AIRSPACE

- Integrated network of automation systems for all centers and control towers in Spanish Airspace
- Integrated National System of Automation / Voice Switch / AIS / Communications for 5 ACCs, 9 APP, 1 Test and development centre, and over 45 towers. Connects to over 25 radars
- Implements “Spanish Single Sky”
- Flexible, 25 years of continuous technological evolution
  - SACTA II: 1992-1996
  - SACTA III: 1997-2006
  - SACTA IV: 2007-2013
EUROCONTROL UAC AT MAASTRICHT

- Supplied last December 2008
- Next generation interoperable Flight Data Processing System at Maastricht UAC, one of the busiest and most complex en-route Air Traffic Centres in Europe
- Meets “Very Advanced” ECAC functional reference model defined by EUROCONTROL
- High technological leap to improve ATM performance in Europe (Jane’s Future Systems Award 2009)
- Actively contributing to Single European Sky
AIRCON: AIR TRAFFIC MANAGEMENT SYSTEM

- Used for Tower/APP/ACC
- Advanced Safety Nets processing
- Flow control features included
- Major functions replicated for security
- 3 LANS for security
- Very advanced Surveillance Data Processor (Multi-Sensor Fusion & Quad redundant tracker systems)
- Operating and supported in more than 40 countries worldwide.
iTEC: VERY ADVANCED SYSTEMS

Jointly developed with:

Entry into op. 2010 2012 2013

- System Wide Information Management (SWIM)
- Integrated Airport Operations
- 4D Trajectory Management
- New Separation Modes
- Collaborative Decision Making (CDM)
- Collaborative Planning
- Automation

Jointly developed with:

Aena
NATS
DFS Deutsche Flugsicherung

2013
2010
2012
Entry into op.
Indra is active member of the SJU, participating in all work-packages

Indra leads WP 10 ATC Systems and WP 12 Airports Systems

Indra is the project leader in 8 Sub-Work Packages and 18 Projects

Indra participates in 70 additional projects as active collaborator

Total Indra Programme effort is worth 120M€

Second company in effort contribution with 1/3 of the overall programme effort
AIR TRAFFIC MANAGEMENT AND AIRPORT SYSTEMS

INDRA PRODUCTS: STATE-OF-THE-ART TECHNOLOGY AND RELIABILITY THROUGH ALL AIRPORT AREAS

“A comprehensive vision of the airport business”

1 Terminal Products
- **AODB Operational System**: Receives and processes all airport operations data
- **RMS Resources Management Systems**: Manages all fixed, mobile and human resources of the airport during operations
- **FIDS Flight Information Display System**: Communication system between airport operator and passengers
- **ISS Integral Security System**: Integrated security system set: CTTV, access control and perimeter security
- **BMS Building Management System**: Planning tool for preventive and corrective maintenance of the complete infrastructure
- **Parking control**: Management system for the airport parking areas

2 TWR Products
- **SACTA-TWR**: Data aggregation system for meteorology, aircraft and aeronautics
- **VCCS Voice Communication Control System**: System for managing communications between aircraft, control tower and ground services
- **AIS Aeronautical Information System**: System that processes aeronautical data, flights plans and weather information

3 Ramp/Air side products
- **ASMS Apron Surveillance Management System**
- **MACCS Mobile Airport Communications Control System**

4 Navaids and meteorological products

5 Communications, Navigation & Surveillance
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