MOBILITY AND SUSTAINABILITY:
THE S-LOW PERSPECTIVE
MILAN BERGAMO
The perfect gateway to northern Italy

Milan Bergamo (BGY) airport is located in the heart of northern Italy, in the middle of Lombardy, just 45 km east of Milan, within 3 hours drive from all major cities. The airport’s catchment area can be identified as one of the most prosperous and productive areas in Europe. Thanks to its proximity to the Swiss border BGY is also a perfect option to reach the Ticino Canton.

The extensive catchment area within 3 hours drive includes:

- almost 25 million people
- almost 2 million enterprises
- 56% of Italian GDP
BUSINESS

Italian largest catchment’s area

Thanks to its location in the middle of Lombardy, Milan Bergamo airport catchment’s area can be identified as the most prosperous, with the highest density of companies, and most populated Italian region. The Italian economic “capital”, Milan, where there are the Italian stock exchange market, the head offices of all the main Italian industrial groups, the “hearth” of the Italian fashion and luxury, is only 45 km away from the airport.

The airport catchment’s area within 60 minutes drive includes:

- **10.002.615** Inhabitants
- **4.350.905** Workers
- **821.473** Companies
- **21%** of Italian GDP
- Lombardy’s GDP: € 33.993 Pro capita
  + 29% Vs. the Italian average GDP pro capita

18% of the Italian population
20% of the Italian workforce
16% of the Italian companies

Source: Istat statistics 2013
TOURISM
Gateway to Alps, lakes, art, history and shopping

Milan Bergamo airport is in the heart of one of the most interesting tourist areas in northern Italy, Lombardy, which has some 40,000 activities offering services to over 26 millions people per year. BGY is the ideal gateway to:

• **THE LAKES**, Garda, Maggiore, Como and Iseo lakes. All of them can be easily reached within 1 hour;
• **THE MOUNTAINS**, being the closest landing field to many well-known ski resorts (Bormio, Livigno, S. Caterina Valfurva, Montecampione, Tonale). Within a short distance of 50 km it is also possible to reach the enchanting valleys surrounding Bergamo, “Val Seriana” and “Val Brebbana”, where competitive beautiful ski resorts as Foppolo, Monte Pora, Carona, San Simone, Valtorta, Colere host tourists all year round;
• **ART AND ARCHITETTURE**, Bergamo old upper city is well worth a visit, as well as Milan and its Duomo cathedral and Verona and its Arena;
• **SHOPPING**, Milan with its “quadrilatero della moda”, the world-famous fashion district among which includes the well-known streets of Via Montenapoleone, Via della Spiga, Via Borgospesso and Via S.Andrea. Where visitors can easily find the main shops of all the “Made in Italy” top brands.
Milan Bergamo airport is managed by S.a.c.b.o., a company with mixed public and private investors, which operates with a 40-year concession received by the Ministry of Transport and Infrastructure and endorsed by the Ministry of Economy in 2002.

Highlights of 2015:

- more than **10.000.000** passengers – **3rd busiest Italian airport** by passenger traffic
- **101** destinations, including **14** domestic, **76** EU destinations and **11** Extra EU destinations
- **125.000** tons of freight – **3rd busiest Italian airport** by cargo traffic
- Main **Ryanair** s base of operation in continental Europe
- Busiest airport in southern Europe for **express couriers** traffic
- **4.000** employees working directly in the airport area
- **4.500** indirect jobs related to the airport activities
Over the last years Milan Bergamo Airport has moved from 16° to the 3° position in the Italian Airports ranking for passengers traffic. During the last 10 years the whole Italian airports air traffic has increased by +60%, while the air traffic at BGY airport has increased by +600%, ten times more than the Italian average growth.

### AIRPORT TRAFFIC

Fourth Italian airport for passengers traffic

<table>
<thead>
<tr>
<th>2002</th>
<th>AIRPORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Roma FCO</td>
</tr>
<tr>
<td>2</td>
<td>Milano Malpensa MXP</td>
</tr>
<tr>
<td>3</td>
<td>Milano Linate LIN</td>
</tr>
<tr>
<td>4</td>
<td>Venezia VCE</td>
</tr>
<tr>
<td>5</td>
<td>Napoli NAP</td>
</tr>
<tr>
<td>6</td>
<td>Palermo PMO</td>
</tr>
<tr>
<td>7</td>
<td>Bologna BLQ</td>
</tr>
<tr>
<td>8</td>
<td>Torino TRN</td>
</tr>
<tr>
<td>9</td>
<td>Verona VRN</td>
</tr>
<tr>
<td>16</td>
<td>Milano Bergamo BGY</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2015</th>
<th>AIRPORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Roma FCO</td>
</tr>
<tr>
<td>2</td>
<td>Milano Malpensa MXP</td>
</tr>
<tr>
<td>3</td>
<td>Milano Bergamo BGY</td>
</tr>
<tr>
<td>4</td>
<td>Milano Linate</td>
</tr>
<tr>
<td>5</td>
<td>Venezia VCE</td>
</tr>
<tr>
<td>6</td>
<td>Catania CTA</td>
</tr>
<tr>
<td>7</td>
<td>Bologna BLQ</td>
</tr>
<tr>
<td>8</td>
<td>Napoli NAP</td>
</tr>
<tr>
<td>9</td>
<td>Palermo PMO</td>
</tr>
<tr>
<td>10</td>
<td>Roma CIA</td>
</tr>
</tbody>
</table>

Fonte: statistiche Assaeroporti
PASSENGER TRAFFIC GROWTH
2002 – 2015: continuous growth in passengers volume

2014 was down 2% vs 2013, due to a 3 weeks period of total closure for runway reconstruction. Without such closure, the trend would have been +3.5% vs 2013.
SCHEDULED DESTINATIONS
SEPTEMBER 2015

✓ 101 DESTINATIONS
  - 14 DOMESTIC
  - 76 EUROPEAN UNION
  - 11 EXTRA EU

✓ 29 COUNTRIES

✓ 110 ROUTES

✓ 12 AIRLINES
  - Air Arabia Maroc
  - Albastar
  - Almasria Airlines
  - Blue Air
  - Blue Panorama
  - Meridiana
  - Neos
  - Pegasus Airlines
  - Ryanair
  - Tacv
  - Volotea
  - Wizz Air
## Traffic between Milan-Bergamo airport and airports in cluster cities

<table>
<thead>
<tr>
<th>Airport</th>
<th>PAX 2014</th>
<th>PAX 2013</th>
<th>PAX 2012</th>
<th>PAX 2011</th>
<th>PAX 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>LONDON STANSTED</td>
<td>434.938</td>
<td>373.425</td>
<td>347.524</td>
<td>347.490</td>
<td>334.829</td>
</tr>
<tr>
<td>BRUSSELS CHARLEROI</td>
<td>277.907</td>
<td>299.731</td>
<td>295.038</td>
<td>300.536</td>
<td>294.760</td>
</tr>
<tr>
<td>PARIS BEAUVAIS</td>
<td>217.073</td>
<td>218.908</td>
<td>220.436</td>
<td>221.443</td>
<td>183.701</td>
</tr>
<tr>
<td>SANTANDER</td>
<td>26.059</td>
<td>33.620</td>
<td>44.750</td>
<td>47.120</td>
<td>49.021</td>
</tr>
<tr>
<td>GIRONA COSTA BRAVA</td>
<td>23.148</td>
<td>32.199</td>
<td>30.453</td>
<td>72.403</td>
<td>227.468</td>
</tr>
<tr>
<td>LUEBECK</td>
<td>21.935</td>
<td>46.785</td>
<td>47.653</td>
<td>47.161</td>
<td>42.881</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1.001.060</strong></td>
<td><strong>1.004.668</strong></td>
<td><strong>985.854</strong></td>
<td><strong>1.036.153</strong></td>
<td><strong>1.132.660</strong></td>
</tr>
<tr>
<td>BARCELONA</td>
<td>250.203</td>
<td>224.038</td>
<td>301.434</td>
<td>248.533</td>
<td>48.660</td>
</tr>
</tbody>
</table>
Milan Bergamo airport is the third largest Italian airport for flown freight volume ranking. The airport is the Italian main hub for express parcels / couriers freight. The two largest worldwide operators, DHL and UPS, have their main south European gateway at BGY airport.
AIRPORT PASSENGERS TRAFFIC
Analysis of outgoing pax per Region of Residence

BALANCED SHARE OF PASSENGERS:
OUTGOING 49.8% - INCOMING 50.2%

BGY does not rely on a single-direction traffic flow

Region of residence of the Italian traffic originating from the catchment area
AIRPORT PASSENGERS TRAFFIC
Analysis of foreign pax per Countries of Residence

FOREIGN PASSENGERS ARE 30.7% OF THE OVERALL TRAFFIC

30.7%  69.3%
AIRPORT PASSENGERS TRAFFIC

BGY is one of the Italian “youngest” airport

- 25-34 years; 30,70%
- 35-44 years; 22,20%
- 18-24 years; 11,30%
- 45-54 years; 17,30%
- 55-64 years; 11,40%
- up to 18; years; 0,30%

65% of BGY passengers are under 44 years old
FOCUS ON BUSINESS PAX
Dedicated services for premium passengers

The percentage of business passengers has grown over the years, now peaking 25% of the total passengers.

In order to provide dedicated services to satisfy the needs of premium passengers Milan-Bergamo has introduced:

- **FAST TRACK** lane;
- **VIP LOUNGES**: 2 lounges, one landside equipped with a dedicated check in desk for passengers and their luggage directly inside the lounge and one airside near the gates. Entry ticket could be purchased online or directly at the lounge.
In addition to the excellent road links for those coming by car from the north of Italy on the A4 highway, Milan Bergamo airport offers excellent accessibility for people using public transport, especially in the Milan area, but also in Bergamo and in Brescia. Public transport available:

- **MILAN DOWNTOWN** - direct bus services from/to Milan Central station and Lambrate station with multiple frequencies every 10-15 minutes. Services are provided by 3 bus companies. The journey takes 45 mins. More than 120 services each direction each day.

- **BRESCIA** - 11 direct services from/to Brescia train station;

- **BERGAMO** - city bus every 20 minutes from the airport to Bergamo train station and downtown;

- **MILAN UNDERGROUND NORTH CITY TERMINAL** – direct non stop bus services from/to Cologno Monzese underground station;

- **EXPO 2015 / MILAN TRADE FAIR** - multi-daily services for all the duration of World EXPO 2015;

- **TORINO** and **LUGANO**: multi-daily services.
TOURISM
Growth potential

Tourism statistic in Bergamo area between 2004-2013 and comparison with the Italian performance. Foreign tourist only. Source: ENIT

Index number: 2004 = 100

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ITALY</td>
<td>100</td>
<td>99</td>
<td>111</td>
<td>117</td>
<td>117</td>
<td>119</td>
<td>122</td>
<td>127</td>
<td>130</td>
<td>134</td>
</tr>
<tr>
<td>BERGAMO</td>
<td>100</td>
<td>95</td>
<td>101</td>
<td>143</td>
<td>133</td>
<td>141</td>
<td>147</td>
<td>149</td>
<td>154</td>
<td>157</td>
</tr>
</tbody>
</table>
“Centrality of territories”
Towards a European network for territorial regeneration
To promote a **territorial regeneration** also through the promotion of a **sustainable tourism**

Activate the internationalization of territories within a network of **European cities**

Anlayse **territorial resources** for a **reticular “s-Low” territorial planning**
Centrality of Territories perspective

SUSTAINABILITY

Low impact and conscious territorial experience/fruition, involving local communities

SMART TECHNOLOGIES

Technologies as systems enabling both a real and a virtual territorial accessibility

CONNECTIVITY (LOW-COST FLIGHTS)

Redefinition of the concept of proximity and of city user
Why Bergamo as a lead partner of a European network?

Orio al Serio international airport «Il Caravaggio»

University of Bergamo


**WEIGHT**
- Italian ranking: 8\(^{th}\) → 3\(^{th}\)
- Passengers: 3,337,671 → 10,402,430

**QUALIFICATION**
- 105 connected cities
- 33 connected countries

---

**WEIGHT**
- Students: 12,266 → 16,334

**QUALIFICATION**
- MIUR ranking: 3\(^{rd}\) out of 8 clusters
- Foreign origin: 208 → 791
- 6 international Master’s degrees
Criteria used to identify cluster cities

**Identification Criteria**

- **Demographic size**
  - OECD urban area
  - < 500,000 inhabitants

- **Location**
  - Close to a metropolitan city

- **City centre**
  - Of historical and artistic value
  - With a campus or university branch

- **University**

- **Type of air travel stopover**
  - Served by low cost carriers or connected by high speed rail
Identification of the European cluster cities (in 2013)

Criteria
1. Low cost airport linked to BGY
2. Small-to-medium size cities (<500,000 inhabitants)
3. Close to large cities (>1,000,000 inhabitants)
4. Prestigious city centre
5. University

Diagram showing cities such as Barcelona, Bilbao, Santander, Cambridge, London, Brussels, Paris, Hamburg, Lubeck, Munich, and others connected with arrows to illustrate their connectivity.
Cluster cities connectivity in 2016

- Lubecca
- Bergamo
- Milano
- Barcelona
- Bilbao
- Paris
- Beauvais
- Bruxelles
- Charleroi
- London Stansted
- Cambridge
- Santander
- Girona
- Milano
- Bergamo
- Santander
- Barcelona
- Girona
- Vueling Airlines
- Germanwings
- Iberia
- EasyJet

Collegamento:
- annuale
- semestrale/stagionale
- Altri vettori di collegamento con Hamburg
INTERNATIONAL RESEARCH
A European inter-university research team, possessing complementary disciplinary competences

CENTRALITY OF TERRITORIES

UNIVERSITIES
Airports
Local institutions

APPLICATIONS AND OPERATIVE RESULTS
Adopting and applying the results of the study and of the suggestions coming from the network

DYNAMIZING ACTION
Stimulating local entrepreneurship for the activation of innovative strategies according to a s-Low perspective
A MULTI-SCALE AND MULTI-LEVEL NETWORK

UNIVERSITY NETWORK

NETWORK OF MUNICIPALITIES

NETWORK OF AIRPORTS

INTERNATIONAL SCALE
Federica Burini

RESEARCH

UNIVERSITY OF BERGAMO
Scientific co-ordinator
Emanuela Casti

EDUCATION

LOCAL SCALE PILOT PROJECTS

Bergamo agri s-low

Unesco Sites

Orobie Regional Park

Ecomuseum of the castles

Mobility, Social Computing
Giuseppe Psaila
Gloria Bordogna CNR
Alessandra Ghisalberti
Veronica Milani
Marilena Cretti

Webmapping, Participation, Territorial networking
Federica Burini
Alessandra Ghisalberti
Sara Belotti

University Exchanges
Spring schools
Traineeships

IFTS (Casti)
Ist. Galli
Fondaz. ITS Como
How to act on a networked territory

- Valorize the cultural and natural local heritage
- Envisage a local chain of micro-entrepreneurship linked to the presence of an airport with low-cost carriers
- Create synergies among local and European territorial actors, with a network perspective