Music in the Italian Digital Library

Luciano Scala
Regional Director for Cultural and Landscape heritage of Campania
The Internet Culturale Portal:

www.internetculturale.it
Internet Culturale

The Italian Digital Library Portal and Cultural-Tourist Network

- Integrated access to the digital and traditional resources of libraries, archives and other cultural institutions.
- Information on activities, projects, collections, and digitised contents
- Bibliographic searches through specific channels or through different databases following the international standards (i.e. Z39.50)
- Digital collections descriptions and access to the single digitised documents.
- Virtual exhibitions, Hypertexts, Cultural-tourist routes, and 3D itineraries
- A pilot e-commerce system (to be operative)
Internet Culturale

Online since **March 2005** with the aims at:

- Transform the **National Library Service** (SBN) - mainstay of the Informative System for Italian Libraries - from catalogographic services provider to an online **making up and diffusion structure for the new knowledge**

- Emphasize the heritage for the **cultural identities** of our Country concerning the most representative areas such as the **musical, scientific, and literary cultures**
National Library Service in figures

Nodes and SBN Libraries

Nodes 65
Libraries 3362
- 44% local institutions libraries
- 35% university libraries
- 7% public libraries
- 6% cultural institutes and foundations libraries
- 8% other typologies

Titles 9,364,131
Authors 2,806,904
Locations 51,523,100

Accesses to OPAC 100 million
Bibliographic searches 25 million

Statistics 2007

The SBN nodes in Italy

National Library Service in figures

Nodes and SBN Libraries

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The SBN nodes in Italy
National Library Service - SBN

SBN offers the opportunity to search documents by typologies, using specific channels such as:

- Ancient Book 623.359
- Modern Book 8.582.851
- Serials 291.382
- Music 650.190
- Graphic materials 3.896
- Cartography 10.454

October 2007 data
OPAC SBN Statistics – Year 2007
Users countries and number of accesses

<table>
<thead>
<tr>
<th>Domini o paesi dei visitatori (Prime 10)</th>
<th>Elenco completo</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Domini o paesi</strong></td>
<td><strong>Pagine</strong></td>
</tr>
<tr>
<td>Italy</td>
<td>it</td>
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<td>United States</td>
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<td>Switzerland</td>
<td>ch</td>
</tr>
<tr>
<td>Netherlands</td>
<td>nl</td>
</tr>
<tr>
<td><strong>Altri</strong></td>
<td></td>
</tr>
</tbody>
</table>

Dettaglio % accessi

- Italia: 55%
- Altri: 37%
- Stati Uniti: 7%
- EU: 1%
Musical cataloguing in SBN

- Law on “Giacimenti culturali” (1986)
- The National Library Service (SBN)
- Dump in SBN of the URFM and IBIMUS catalogues (200,000 records)
- Setting-up of the SBN-Musica procedure (offline)
- Organization of a musical database which includes 650,190 documents
- Musical shared cataloguing in INDICE2 (online)
OPAC SBN Services on the Internet Culturale portal

Through the Internet Culturale portal it is possible to access to 4 different services by the SBN card:

D: digital format
P: Interlibrary loan
O: local catalogue
A: Italian libraries register
Luciano Scala
Regional Director for Cultural and Landscape heritage of Campania
Music in the Italian Digital Library
Italian Digital Library - Biblioteca Digitale Italiana (BDI)

Defined in 2001 to:

✓ **offer** an access system to the **bibliographic data** integrated with new **digital resources**

✓ **promote and to improve knowledge**, making available the Italian bibliographic heritage to a national and international level

✓ **safeguard** the asset offering the digital copy to be consulted which is not subject to deterioration
BDI - Mission

• to define programs and collections to be digitised
• to indicate standards and guidelines
• to create a network for online accessibility of cultural digitised material
• to establish a common working method in the field of long term digital memory
BDI: Standards & Protocols

- **Metadata**
  - **Unimarc (Universal Machine Readable Catalogue)** international standard created to facilitate the bibliographic information exchange
  - **Dublin Core** defines a set of elements to describe the resources’ properties
  - **MAG** (Management Administrative Metadata) standard for description, management, and preservation of digital resources

- **Preservation and sharing models**
  - **OAIS (Open Archival Information System)** logical model which describes all functions of a digital archive and makes the Dissemination of the Information Package possible
  - **OAI-PMH (Open Archive Initiative Protocol for Metadata Harvesting)** standard for repositories interoperability
# BDI: digital contents

<table>
<thead>
<tr>
<th>Thematic Area</th>
<th>Documents number</th>
<th>Digital objects number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music</td>
<td>23,000</td>
<td>1,300,000</td>
</tr>
<tr>
<td>Science</td>
<td>800</td>
<td>80,000</td>
</tr>
<tr>
<td>Literature</td>
<td>30,000</td>
<td>390,000</td>
</tr>
<tr>
<td>Serials</td>
<td>1,000</td>
<td>400,000</td>
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<tr>
<td>Mare Magnum Project</td>
<td>5,500</td>
<td>130,000</td>
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<tr>
<td>Cartography</td>
<td>24,450</td>
<td>50,000</td>
</tr>
<tr>
<td>Historical Catalogues</td>
<td>215</td>
<td>6,850,000</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>84,965</strong></td>
<td><strong>9,200,000</strong></td>
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# BDI: Funded projects (2001-2005)

<table>
<thead>
<tr>
<th>Year</th>
<th>Projects number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001</td>
<td>8</td>
</tr>
<tr>
<td>2002</td>
<td>18</td>
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<tr>
<td>2003</td>
<td>14</td>
</tr>
<tr>
<td>2004</td>
<td>11</td>
</tr>
<tr>
<td>2005</td>
<td>35</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>84</strong></td>
</tr>
</tbody>
</table>

Musical Projects: 33
Statistics for the IC portal
Referring to 2007
Luciano Scala
Regional Director for Cultural and Landscape heritage of Campania

Music in the Italian Digital Library

Musical Area

www.internetculturale.it/genera.jsp?s=402&l=en
Musical Area

- Thematic Area entirely dedicated to the music. Direct access is allowed to the most important collections preserved in libraries, archives and other cultural institutions in our country

- It is available in 4 languages (Italian, English, Spanish, and French)

- It is online since 20th June 2008, during the European Music Day, on the Internet Culturale Portal (www.internetculturale.it)

- It offers new consultation tools for scholars as well as for music fans
Music on Internet Culturale

The thematic Musical Area represents a strategical sector in the making up of a digital library because of the:

- richness on the heritage preserved in libraries, archives and other cultural Italian institutions
- variety of the held (scores, documents, iconographies, audios and videos)
- valorisation of history and of national identity
- dissemination of the musical culture knowledge around the world
- promotion of cultural tourism
Musical heritage of Italian archives and libraries

1. About **1,700** are the libraries and the archives which preserve musical materials
2. An huge heritage estimated in:
   - ✓ musical manuscripts
   - ✓ printed editions
   - ✓ codices and liturgical books
   - ✓ librettos
   - ✓ music theory texts
   - ✓ historiography literature (18th-20th Centuries)
3. Together with documentary tipologies such as: photos, portraits, letters, musical serials, reviews, programmes, theatre announcements, scenic arrangements, sketches, costumes, etc.
4. Audiovisual material archives are, at last, a priceless source of documentary and historic value
# Digital contents

## Musical thematic area

<table>
<thead>
<tr>
<th>Project</th>
<th>Documents</th>
<th>Images</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Digital Library</strong> del Conservatorio San Pietro a Majella - Naples</td>
<td>8,246</td>
<td>1,007,933</td>
</tr>
<tr>
<td><strong>Archivio Storico Ricordi</strong> - Milan</td>
<td>6,586</td>
<td>12,660</td>
</tr>
<tr>
<td><strong>Beni musicali in Trentino</strong> – Prov. di Trento</td>
<td>1,843</td>
<td>5,204</td>
</tr>
<tr>
<td><strong>Archivio Musicale</strong> dell’Archivio dell’Abbazia di Montecassino</td>
<td>1,265</td>
<td>58,714</td>
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<tr>
<td><strong>Manoscritti musicali di pregio</strong> del Conservatorio Cherubini - Florence</td>
<td>1,064</td>
<td>38,416</td>
</tr>
<tr>
<td><strong>Manoscritti musicali</strong> della Biblioteca Nazionale Centrale di Rome</td>
<td>880</td>
<td>20,618</td>
</tr>
<tr>
<td><strong>Fondi pucciniani</strong> nella città di Lucca - Istituto Boccherini di Lucca</td>
<td>703</td>
<td>5,860</td>
</tr>
<tr>
<td><strong>Fondo Mayr e Raccolta Donizzettiana</strong> della Civica Biblioteca Angelo Mai e del Museo Donizettiano - Bergamo</td>
<td>626</td>
<td>23,080</td>
</tr>
<tr>
<td><strong>Fondo pucciniano Bonturi-Razzi</strong> della Biblioteca Statale di Lucca</td>
<td>514</td>
<td>1,525</td>
</tr>
<tr>
<td><strong>Il Fondo Stradella</strong> della Biblioteca Estense Universitaria - Modena</td>
<td>340</td>
<td>17,815</td>
</tr>
<tr>
<td><strong>Fondi Contarini e Canal</strong> della Biblioteca Nazionale Marciana - Venice</td>
<td>212</td>
<td>14,167</td>
</tr>
<tr>
<td><strong>Fondo Sala</strong> dell’Accademia Filarmonica Romana - Rome</td>
<td>208</td>
<td>11,850</td>
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<tr>
<td><strong>Manoscritti liturgici</strong> del Civico Museo Bibliografico Musicale e della Biblioteca Comunale Dell'archiginnasio - Bologna</td>
<td>179</td>
<td>7,724</td>
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<tr>
<td><strong>Fondi musicali</strong> della Biblioteca Nazionale Universitaria di Turin</td>
<td>91</td>
<td>13,739</td>
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<tr>
<td><strong>Musica sacra e profana</strong> della Biblioteca Comunale Augusta - Perugia</td>
<td>73</td>
<td>12,728</td>
</tr>
<tr>
<td><strong>Legato fotografico Ferrarini de La Casa della Musica</strong> - Parma</td>
<td>34</td>
<td>244</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>22,864</td>
<td>1,252,277</td>
</tr>
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</table>
Institutes and Projects
Musical institutes and projects

• Over 30 Institutes joining the Network

• A view of the digitisation projects funded by Ministry for Cultural Heritage and Activities - MiBAC (already realized and in progress)

• Deepening cards on institutions as well as on musical collections
Music in the Italian Digital Library

The involved Institutes and the Digitisation Projects

**Biblioteca Civica Angelo Mai - Bergamo**
The autograph scores digitisation by Giovanni Simone Mayr preserved in the fund titled to the Bavarian musician, and the Raccolta Donizettiana autographs.

*In-depth carés (Italian version):*
- [access the digital heritage](#)

**Biblioteca Comunale Auguste - Perugia**
The San Domenico’s choral - a complete series of 21 miniature choral books, among the Thirteenth and the Fourteenth Century, for the San Domenico’s convent in Perugia - a selection of sacred music manuscripts of the Library and a score corpus by Francesco Montanelli (1374-1384), composer from Perugia.

*In-depth carés (Italian version):*
- [access the digital heritage](#)
- [from the Library Catalogue](#)

**Biblioteca Estense Universitaria - Modena**
The Stradella’s scores fund - with Alessandro Stradella’s music (1659-1682) and an arsoros selection by the Seventeenth Centuries connected to the performances cycle wanted by the Francesco II d’Este Duke during the Lent - and some precious manuscripts from the Este Library musical collection.

*In-depth carés (Italian version):*
- [access the digital heritage](#)
The Institutions

- Public and Private Institutes: 5
- Academies and Conservatories: 5
- Council and Provincial Libraries: 10
- Public State Libraries and State Archives: 11
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Music in the Italian Digital Library

Projects carried out in the Public state libraries

**Biblioteca Nazionale Centrale in Rome** – *Il Fondo Manoscritti musicali* centred on sacred choral music of Rome during the 16th-19th Centuries (880 documents for a total of 20,168 images)

**Biblioteca Nazionale Universitaria in Turin** – Manuscripts by Antonio Vivaldi and music by important composers (Stradella, Galuppi, Traetta, ecc.) preserved in the *Raccolte Foà e Giordano* (91 documents for a total of 13,739 images)

**Biblioteca Nazionale Marciana in Venice** – Valuable scores in the *Fondi Contarini e Canal* and a corpus of sonatas for harpsichord by Domenico Scarlatti (288 documents for a total of 14,490 images)

**Biblioteca Estense Universitaria di Modena** – Scores by the *Fondo Alessandro Stradella* and a selection of XVII Century oratories (340 documents for a total of 17,815 images)

**Biblioteca Statale di Lucca** – Cataloguing and digitisation of the *Bonturi-Razzi collection*, a source, for the most unpublished, on the artistic, professional and domestic life of Giacomo Puccini (514 documents for a total of 1,525 images)
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La Fenice rinovata. q.V.63, c.1r
(Biblioteca Nazionale Universitaria in Turin)

Graduale da Mss musicali 139, c. 1r
(Biblioteca Nazionale Centrale in Rome)
Projects carried out in the City and Provincial Libraries (1)

**Biblioteca civica Augusta di Perugia** – *Musica sacra in Augusta* project with the medieval mianiate codices digitisation (73 documents for a total of 12,728 images)

**Biblioteca civica Angelo Mai**

**Museo donizettiano di Bergamo** – *Gaetano Donizetti and Giovanni Simone Mayr* autographs (626 documents for a total of 23,080 images)

**Casa della Musica di Parma** – Historical photos of *Legato Ferrarini* coming from the Archivio del Teatro Regio di Parma (34 documents for a total of 244 images) and music serials project
Projects carried out in the City and Provincial Libraries (2)

**Biblioteca del Museo del Buonconsiglio di Trento** – *Beni musicali in Trentino* project, with seven XV Century musical codices digitisation (1,843 documents for a total of 5,204 images)

**Museo Internazionale e Biblioteca della Musica**

**Biblioteca comunale dell’Archiginnasio di Bologna** – Ancient liturgical manuscripts (179 documents for a total of 7,724 images)

**Biblioteca provinciale Albino di Campobasso** – *MoliseMusica* project, to build up a musical manuscripts digital archive (in progress)
Gilles Binchois, *A solis ortu cardine ad usque terre limitem*
ms.1379 (Tr 92) (Biblioteca del Castello del Buonconsiglio di Trento)
Projects carried out in

CONSERVATORIES – ACADEMIES – CULTURAL INSTITUTIONS

Conservatorio Cherubini in Florence – A selection of scores from the *Fondo Basevi e dalle Cassette degli Autografi* (1.064 documents for a total of 38.416 images)

Istituto Boccherini di Lucca – The documentary sources, preserved in numerous institutes in Lucca, which allow the reconstruction of Giacomo Puccini young period (703 documents for a total of 5.860 images)

Accademia Filarmonica in Rome – Manuscripts by the *Fondo Sala*, scores and librettos with particular value for the Academy history (208 documents for a total of 11.850 images)

Fondazione Rossini di Pesaro – The ”G. Rossini e il suo tempo” project dedicated to the Rossini’s manuscripts and printed editions digitisation, preserved in the *fondo Lord St. Davids*
Luigi Costaguti - Domenico Capranica - Gaetano Donizetti,
*Cantata in onore di Pio VIII*, 1829, c.1r
(Accademia Filarmonica Romana)

Giacomo Puccini, *Capriccio Sinfonico*, c.1r
(Biblioteca dell'Istituto Musicale Boccherini di Lucca,
Fondo Puccini)
Archivio Storico Ricordi Digitisation

- Agreement among MiBAC and BMG Ricordi S.p.A, for the setting up of a digital repository of musical documents coming from the Archivio Storico di Casa Ricordi (the most important Italian private musical archive, present now in the Biblioteca Braidense in Milan)

- Cataloguing and digitisation of a varied documentary typologies by Verdi and Puccini: scores, letters, and iconographical materials (photos, draws, sketches, fashion plates, scenic maps)

- 6,586 documents (12,660 digital scans) to rebuild the creative genesis of the works and their theatre realization
Giuseppe Verdi, *Aida*, figurino, Teatro alla Scala, Milan (8.2.1872)
(Milan, Archivio Storico Ricordi)

Giuseppe Verdi, *Aida*, bozzetto, atto I, Teatro alla Scala, Milano (8.2.1872)
(Milan, Archivio Storico Ricordi)
Giuseppe Verdi, *Falstaff*, bozzetto, atto III
(Milan, Archivio Storico Ricordi)
Giacomo Puccini, *La bohème*, copertina dello spartito inglese (disegno di Adolf Hohenstein)  
(Milan, Archivio Storico Ricordi)

Giacomo Puccini, *Madama Butterfly*, disegno di Leopoldo Metlicovitz, 1904  
(Milan, Archivio Storico Ricordi)
Giacomo Puccini, *La bohème*, bozzetto, atto II (Milan, Archivio Storico Ricordi)
The Conservatorio San Pietro a Majella Digital Library

The most relevant digital musical collection:

- 3,500 digitised manuscript volumes
- 8,246 catalogued compositions
- 1,007,933 scanned images

A wide project for the digitisation of the most precious scores of the historical library, selected among the cantatas and arias collections, and the queen Maria Carolina collection. Particular relevance have the autograph scores by Rossini, Bellini, Donizetti, Verdi, Cimarosa, Paisiello, Pergolesi, Jommelli and by the principal representatives of the Neapolitan music.

A second digitisation project will make available shortly further 2,070 documents with 438,197 images.
Domenico Cimarosa, *Il matrimonio segreto*, ms autografo (Conservatorio S. Pietro a Majella)
Giovanni Battista Pergolesi, *Il Flaminio*, atto III ms autografo (Conservatorio S. Pietro a Majella)
Gaetano Donizetti, *L'elisir d'amore*, atto I, ms autografo
(Conservatorio S. Pietro a Majella)

Vincenzo Bellini, *Adelson e Salvini*, ms autografo
(Conservatorio S. Pietro a Majella)
Other projects belonging to the Neapolitan school

- **Congregazione dell’Oratorio dei Girolamini in Naples** - Restoration, cataloguing and digitisation of the whole musical archive (60,000 images including over 6,500 sacred music compositions of the 16th and 17th Centuries, most of which unpublished), available for the first time to the scholars.

- **Abbazia di Montecassino** – Digitisation of the Musical Archive which includes sources of primary importance for the Neapolitan music study of the 18th and 19th Centuries (50,000 images from 400 manuscript volumes)
Biblioteca dell’Abbazia Montecassino

Francesco Durante, *Duetti vocali. Musica per Camera*, c.1r

Alessandro Scarlatti, *Ariette varie*, c.2r

Pasquale Anfossi, *Lucio Silla*, Duettino “Questo ampesso”, c.1r
Digitised musical collections
Digitised collections

• The main digitised musical collections
• Over 30 digital collections with deepening cards
• A system to easily visualize all the documents belonging to a specific collection or to an institution
• Direct access to music history sources
Some digitised collections (1)

**La Raccolta donizettiana**

The **Raccolta Donizettiana of the Museo Donizettiano di Bergamo** includes about 200 manuscript autographs among operas, cantatas, sacred music, chamber music, piano compositions, and school practices.

The most significative musical pieces are the *Gabriella di Vergy* and the *Elisir d'amore, second act*, scores.
Gaetano Donizetti: *Elisir d’amore*, atto II, “Una furtiva lagrima”, cc. 85v-86r
(Archivio donizettiano di Bergamo)
Some digitised collections (2)

**Chorals of the Convento di San Domenico di Perugia**

The complete series of 21 chorals delicately miniated with calligraphy initials and ornament, realized between the 13th and 14th Centuries, for the San Domenico convent.

Now preserved in the Biblioteca comunale Augusta, the big format parchment manuscripts contain liturgical composings.
San Domenico Chorals
Some digitised collections (3)

**Fondo pucciniano Bonturi-Razzi**

The collection, acquired by the Biblioteca Statale di Lucca, contains over 500 documents, the most of which unpublished, collected by the Razzi’s family. Letters, postcards, photos, and draws to document the private and public activities of the composer from Lucca. Precious musical testimonies such as an autograph variation on the *Fanciulla del West* third act, or the Ricordi score (1890) for canto and piano by *Edgar*, with numerous author’s interventions and comments on scenes for the Lucca play in 1891.
Giacomo Puccini, *Edgar*, spartito per canto e pianoforte, 1890 (Biblioteca Statale di Lucca, *fondo Bonturi-Razzi*)

Giacomo Puccini, *La fanciulla del West*, variante autografa all’atto III (Biblioteca Statale di Lucca, *fondo Bonturi-Razzi*)

Giacomo Puccini e Rosa Ponselle a Viareggio, foto (Biblioteca Statale di Lucca, *fondo Bonturi-Razzi*)
The autographs
The autographs (1)

• The most important composers autographs are present in the database
• Over 200 authors sort alphabetically
• Direct access to about 1.500 precious manuscripts for the music history’s study
The autographs (2)

- A simple access to precious original manuscripts (not easy to consult in their paper format)
- Opportunity to view manuscripts of composers such as Bellini, Cimarosa, Paisiello, Rossini, Spontini, Verdi
- An advanced tool for the scientific community to study and analyze the creative processes of the great music masters
Music in the Italian Digital Library

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Direzione Generale per i Beni Librari, gli Istituti Culturali ed il Diritto d’Autore

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Giacomo Puccini, Solfeggio, manoscritto autografo
(Biblioteca Statale di Lucca, *fondo Bonturi-Razzi*)

Gaetano Donizetti, *Elisir d’amore*, atto II
(Museo Donizettiano di Bergamo)
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Regional Director for Cultural and Landscape heritage of Campania

Music in the Italian Digital Library

Gioachino Rossini, La Gazzetta, ms. autografo, c.3r
(Conservatorio S. Pietro a Majella Napoli)

Giuseppe Verdi, Quartetto, ms autografo, c.1r
(Conservatorio S. Pietro a Majella Napoli)
Musical routes
Musical routes (1)
Monographical routes for non-specialized users, oriented to education:

• **Text travels and digital exhibitions**: hypertexts dedicated to eminent personalities or to music themes

• **3D itineraries**: virtual 3D reconstructions of places having reference to musical types (Opera on stage. A virtual excursion in musical theatre) and to important persons for the music history (Niccolò Paganini: a virtual route connected to him and to the city of Genova)
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Regional Director for Cultural and Landscape heritage of Campania  
Music in the Italian Digital Library

Text travels
Giuseppe Verdi, life, works, and interpretations

An important dedicated to the great composer, from his early life to his last years, his music, his life and his historical moment of Italy. (Italian version only).

Verdi's Albums
The exhibition includes approximately eighty Verdi's autographs recovered in a very small area and assembled in 1913 by Enrico Cordero. In the display there are numerous documents with autographic documents, caricatures, lithographs, paintings, photographs, clippings, caricatures, portraits, and even poems of poems in the style of Verdi's songs.
Text travels

A rich choice of monothematic itineraries enriched by hypertexts on the portal’s themes: music, literature and science.
3D Itineraries

3D routes which offer users the opportunity to visit virtual spaces, rebuilt with help of the latest technologies. Each route has a deepening card and links also to resources outside the portal itself.
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Regional Director for Cultural and Landscape Heritage of Campania

Music in the Italian Digital Library
Exhibitions

Digital version of **26 exhibitions**, promoted and realized in the last years by the public state libraries, some of which real monographies of the most important personalities of the Italian cultural landscape.
Giuseppe Verdi *Macbeth*, frontespizio della partitura per canto e pianoforte
Milano, Ricordi (dopo il 1851) (Istituto nazionale studi verdiani di Parma)
Music in the Italian Digital Library

Villa Verdi a Sant’Agata, dipinto di Salvatore D’Avendaño (1870)
Virtual music stand

Some of rare manuscripts are available in a suggestive and simple way with the use of a system which simulate the flip through of a score. For example:

- **Domenico Cimarosa**, *Il matrimonio segreto* - Naples, Biblioteca del Conservatorio di musica S. Pietro a Majella, XV.5.10
- **Claudio Monteverdi**, *L’incomorazione di Poppea* - Venice, Biblioteca Nazionale Marciana, ms It. IV, 439 (=9963)
- *Strambotti a 2-4 voci* - Modena, Biblioteca Estense Universitaria, alfa.F.9.9 (It. 1221 )
- **Codice franco-cipriota** - Turin, Biblioteca Nazionale Universitaria, Ms. J.II.9
Example of a music stand on Internet Culturale
Italian Music Network
Rete della Musica Italiana (ReMI) – Italian Music Network

• The new music search interface offers an integrated navigation among different documents: from autographs to printed scores; from letters to librettos; from scenes sketches to photographies.
• Opportunity, in this early stage, to consult about 10,000 documents coming from the Archivio Storico di Casa Ricordi (with theatrical staffs of the principal set up of the Giuseppe Verdi and Giacomo Puccini’s operas) and the polyphony 15th and 16th Centuries repertoire digitised within the “Beni musicali in Trentino” project.
• Relational search system for the web, which offers numerous easy and intuitive tools
• User-friendly contents display
Rete della Musica Italiana (ReMI) – Italian Music Network

A new management and diffusion data architecture, born with the collaboration with the Laboratorio di Informatica Musicale dell’Università degli Studi di Milano (LIM) which foreseens:

- **Setting up of peripheral repositories and connected each other**
  - For an independent organization of contents
  - For an economy and self sufficient contents management

- **Centralized data for web services**
  - To optimize answering time
  - To guarantee services continuity

- **Development of a relational search system among metadata**
  - For a user-friendly navigation
  - For a multimedia consultation
  - For an audio-video materials integration
Architectural ReMI Schema
The Istituto centrale per i beni sonori ed audiovisivi – Central Institute for audio and audiovisual heritage is the most important public Italian collection of audio documentation. The preserved heritage includes over 300,000 supports including wax rolls, metallic threads, records, tapes, cds, and videos, a number with an exponential growing considering the new rules on the law depot (deposito legale). Actually the growing is of about 6,000 new supports for year. The Istituto centrale per i beni sonori ed audiovisivi owns, in addition to the audio collections heritage, a collection of audio playing tools.
## Istituto centrale per i beni sonori ed audiovisivi

### The heritage (2)

<table>
<thead>
<tr>
<th>Supports type</th>
<th>Supports Nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAX ROLLS</td>
<td>2,500</td>
</tr>
<tr>
<td>LACCHE 33gg</td>
<td>300</td>
</tr>
<tr>
<td>78gg</td>
<td>51,392</td>
</tr>
<tr>
<td>BOBBIN TAPES</td>
<td>13,560</td>
</tr>
<tr>
<td>standard CDS</td>
<td>94,683</td>
</tr>
<tr>
<td>VHS Standard PAL</td>
<td>5,943</td>
</tr>
<tr>
<td>BETACAM SP</td>
<td>250</td>
</tr>
<tr>
<td>33gg</td>
<td>112,284</td>
</tr>
<tr>
<td>45gg</td>
<td>31,900</td>
</tr>
<tr>
<td>PAPERBOARD RECORDS</td>
<td>6,000</td>
</tr>
<tr>
<td>TAPES</td>
<td>6,443</td>
</tr>
<tr>
<td>DVDs</td>
<td>12,000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>337,255</strong></td>
</tr>
</tbody>
</table>

### Other supports

<table>
<thead>
<tr>
<th>Supports type</th>
<th>Supports Nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photos</td>
<td>1,200</td>
</tr>
<tr>
<td>Films</td>
<td>150</td>
</tr>
<tr>
<td>Slides</td>
<td>190,000</td>
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</tbody>
</table>
In details, the *Istituto centrale per i beni sonori ed audiovisivi* heritage includes:

- Tape repository
- Historical voices
- Archivio Etnico Linguistico – Musicale (AELM)
- Italian Theatre
- Archivio Nazionale del Disco
## Digitisation

<table>
<thead>
<tr>
<th>Support types</th>
<th>Supports Nr.</th>
<th>To be digitised</th>
<th>Digitised</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wax rolls</td>
<td>2,500</td>
<td>2,250</td>
<td>250</td>
<td>1,300 ready to be digitised</td>
</tr>
<tr>
<td>Lacche 33gg</td>
<td>300</td>
<td>0</td>
<td>300</td>
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</tr>
<tr>
<td>78gg</td>
<td>51,392</td>
<td>16,122</td>
<td>35,270</td>
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<tr>
<td>Bobbin tapes</td>
<td>13,560</td>
<td>8,560</td>
<td>5,000</td>
<td></td>
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<td>Standard CDs</td>
<td>94,683</td>
<td>40,621</td>
<td>54,062</td>
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</tr>
<tr>
<td>VHS Standard PAL</td>
<td>5,943</td>
<td>5,943</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETACAM SP</td>
<td>250</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>33gg records</td>
<td>132,284</td>
<td>132,284</td>
<td></td>
<td>Public tender</td>
</tr>
<tr>
<td>45gg records</td>
<td>36,565</td>
<td>36,565</td>
<td></td>
<td>Digitised together with the 33gg records</td>
</tr>
<tr>
<td>Tapes</td>
<td>7,443</td>
<td>7,443</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paperboard records</td>
<td>6,000</td>
<td>6,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DVDs</td>
<td>12,000</td>
<td>12,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>362,920</strong></td>
<td><strong>268,038</strong></td>
<td><strong>94,332</strong></td>
<td></td>
</tr>
</tbody>
</table>
Istituto centrale per i beni sonori ed audiovisivi

Digital Repository

• 484,000 wave files
• 968,082 mp3 files
• 583,529 xml files (with technical metadata)

About 41,000 hrs of audio
Corresponding to 1,478 days = 4.5 years
Catalographic and multimedia data integration throughout a unique consultation interface

- 900,000 titles
- 120,000 audio files
- 100,000 images
Conclusion: Aims (1)

– To increase the musical heritage that can be consulted
– To improve digitisations projects already realised
– To minimize the costs for future activities
– To guarantee and to get better quality standards for heritages and services
– To coordinate the projects
Conclusion: Aims (2)

– To involve local and private institutions, the Universities, and the Scientific Community
– To be integrated in the territory thanks to the cultural tourism promotion
– To encourage the creation of new professional figures specialized in the cultural musical heritage field
– To promote integration with other European and international networks
THANK YOU!

I would like to thanks, for their contribution:
Massimo Pistacchi (*Director of the Istituto centrale per i beni sonori ed audiovisivi*)
Mauro Tosti-Croce (*General Direction for the Archives*)
Riccardo Artico, Alfredo Esposito e Priscilla Sermonti (*Internet Culturale editorial staff – General Direction for Library Heritage, Cultural Institutes and Copyright*)