The Interactive-Music Network

DE7.1.4
Project Presentation

Version: 1.0
Date: 30/09/02
Responsible: DSI

Project Number: IST-2001-37168
Project Title: The Interactive-Music Network
Deliverable Type: Public
Visible to the Working Groups: all
Visible to the Public: yes

Deliverable Number: DE7.1.4
Contractual Date of Delivery: 30-Aug-2002
Actual Date of Delivery: 30-Aug-202
Title of Deliverable: Project Presentation
Work-Package contributing to the Deliverable: WP7
Nature of the Deliverable: document
Working Group: all
Author(s): (Paolo Nesi, coordinator) DSI and all

Abstract:
The first document in which the aim and goals of MUSICNETWORK project are presented.

Keyword List:
www pages, multimedia music notation, computer music

The Interactive MUSICNETWORK is an activity funded by the European Commission to bring the music industry, content providers, institutions, and research groups into the interactive multimedia era of music.

http://www.interactivemusicnetwork.org

Its implementation was motivated by the fact that large gaps exist between research results and industrial needs, and between users' requirements and available information technology products. Many products in the market have failed to exploit the potential of new technologies. MUSICNETWORK is a Centre of Excellence created to assist the music industry to enter the marketplace by drawing on the assets and mutual interest of the different actors in using, technologies, tools, products, formats and models.
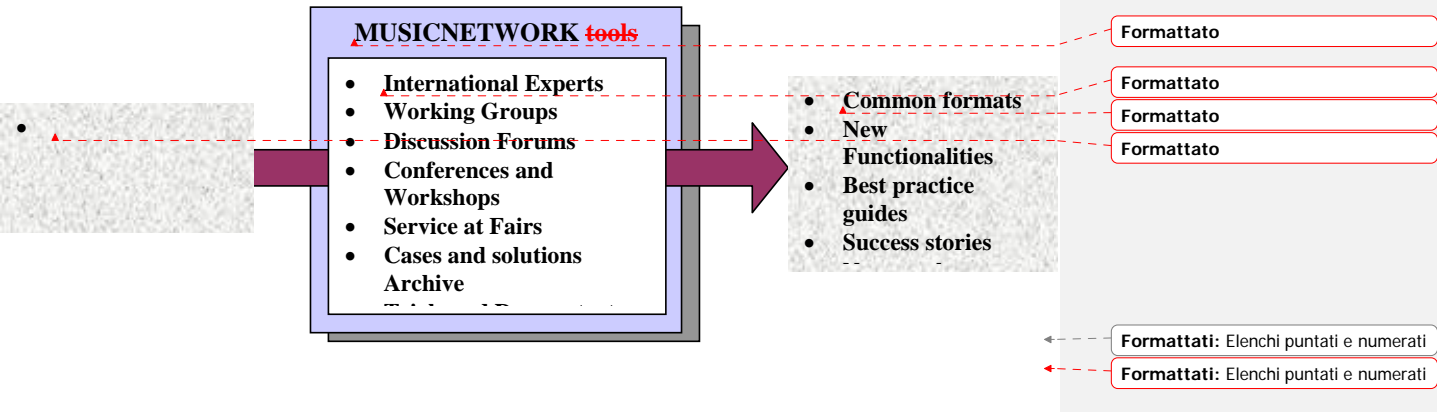

It is important to highlight that MUSICNETWORK is much more that a Music Encoding Initiative, MEI.

The availability of new formats and/or specific guidelines for the music industry capable of coping with the interactive multimedia aspects of music will set the scene for:
- implementing new applications exploiting new functionalities;
- creating new markets: distance learning, "edutainment", "infotainment", mobile, etc.;
- exchanging and converting music into a commonly trusted formats and technologies.

The MUSICNETWORK presents several tools for reaching its goals

MUSICNETWORK tools

- **International Experts**
- **Working Groups**
- **Discussion Forums**
- **Conferences and Workshops**
- **Service at Fairs**
- **Cases and solutions Archive**

- **Common formats**
- **New Functionalities**
- **Best practice guides**
- **Success stories**

Formattato

Formattato

Formattato

Formattato

Formattati: Elenchi puntati e numerati

Formattati: Elenchi puntati e numerati

The aim of the MUSICNETWORK it to provide a permanent free service to its **participants**:

- access at the largest database of music-related state of the art technologies and solutions by making them available on the web site. Specific technical reports, tutorial notes, guidelines, articles will be posted on each of the above topics;
- giving a clear visibility to your work on research and technology innovation. Please submit your proposal;
- training and update your experts on the latest technologies and solutions. Please post your specific requests;
- ensuring that your problems are solved with full safety and within a short time. The problems can be communicated via web pages, and at the major music fairs and via email to musicnetwork@dsi.unifi.it;
- providing information and support on European Commission opportunities for the sector in the European Commission FP6.

The MUSICNETWORK

- **co-ordinates** a set of working groups of experts on the most important topics in order to overcome problems encountered in bringing *music coding* into the interactive multimedia age.
- **organises** workshops and conferences, inviting experts and music industry leaders in order to create a forum in which problems and potential solutions can be presented and discussed.
- **integrates** the results obtained to suggest integrated models and formats for interactive multimedia music coding, distribution and protection based on new standard proposals and/or guidelines for the adoption of present standards.
- **stimulates** the exploitation of new functionalities which open new markets for several new ways of music interaction and distribution for e-publishing, advertising, entertainment, edutainment, pervasive and mobiles on old, etc.
- **accelerates** the digitization of archives and digital collections and thus the fruition of new music content by both removing technical problems and creating awareness about the capability of present technologies and solutions

MUSICNETWORK Working Groups:

- **Coding music notation**, coding audio, including modern music notation, format conversion, lyric modeling (multilingual aspects), fonts, definition of standard for music symbols, educational aspects, production and postproduction aspects, etc.
- **libraries**, classification, identification (ISBN, IORC, ISMN, etc.), cataloguing (Z39.50, MARK and its several versions, etc.), content based searching/retrieval, Digital Asset Management, multilingual aspects, next generation of music libraries, virtualization, sharing documents and content, copyright management with publishers, audio description, music notation description, semantic description, processing, annotation, encoding, ensemble, educational aspects, etc.
- **multimedia standards** for music coding, audio and video coding (MPEG7, MPEG21, etc.), Internet portable formats (XGML, XML, etc.), synchronization (SMIL), media integration, authoring environments (Macromedia, Arturia, Digidesign, Arkaos, Steinberg, Adobe, IRCAM, etc.), ergonomical aspects, WEB animation solutions, Interactive and WEB TV and their adoption for multimedia music fruition, etc. IRCAM will reinforce its participation in standardization activities, particularly in MPEG7 and MEPG21 and will coordinate other experts belonging to the Group involved in standardization, so as to produce feedback on progress.
- **distribution** of coded music, streaming, Internet, distribution models (B2B, B2C, P2P, etc.), UMTS, WEB-tv, Mobile, transaction models (on-line, off-line, kiosks, virtual shops, transaction with certification partner), etc.
- **protection** of coded music, encryption, watermark, Digital Right Management, SDMI (that is losing relevance), active and passive protection, etc.
- **accessibility,** music coding for print impaired people (visually-impaired people and other impaired aspects, such as dyslexia), user interfaces, special assistive devices for impaired people, spoken music output and printing for impaired people, etc.
- **imaging,** coding images of music sheets, image score acquisition and restoring, acquisition of music sheets with different types of page support, digitizing ancient music scores, restoring music sheets,

optical music recognition, transformation from images of music scores to symbolic format (printed and handwritten music notation), recovering of historical music sheets.

The Project Partners are:

- Dipartimento di Sistemi e Informatica, Univ. of Florence, Italy;
- AMW, Denmark;
- ARCA, Italy,
- CRL, UK;
- EXITECH, Italy;
- Federative van Nederlandse Blindenbibliotheken, The Netherlands;
- Fraunhofer Institute for Computer Graphics, Germany;
- ILABS, Giunti Multimedia, Italy;
- ILSP, Greece;
- Institut de Recherche et de Coordination Acoustique-Musique, IRCAM, France;
- MICA, Austria;
- Notissimo, France.
- RIGEL, Italy;
- University of Leeds, UK;

Many many particpiants will be added during the project.

Who is interested in getting the services of the MUSICNETWORK or in participating at the next organised technical events could communicate their interest making the registration at the MUSICNETWORK on the www site: www.interactivemusicnetwork.org

Next Major Events with MUSICNETWORK support or Open Workshops:

- □ **- Darmstadt, Germany, 11-12 December 2002, with WEDELMUSIC 2002 Conference;**
- □ **- Cannes, France, 4-6 February 2003, at MILIA;**
- □ **- Frankfurt, Germany, 5-9 March 2003, at Musik Messe;**
- □ **- Amsterdam, The Netherlands, May 2003, at DAISY 2003;**
- □ **- (to be defined), July-September 2003, (to be defined);**
- □ **- (to be defined), September 2003, with WEDELMUSIC 2003 Conference;**

Contact person:

Prof. Paolo Nesi,
Dept. of Sys. and Informatics, University of Florence
Tel: +39-055-4796523, 425, 567,
Fax: +39-055-4796363
nesi@dsi.unifi.it, musicnetwork@dsi.unifi.it
http://www.dsi.unifi.it/~nesi/
www.interactivemusicnetwork.org