



UNIMORE
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA

Homm-sw

Networks-of-stories for digital storytelling

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EMEM 2016 “Design the future” | Sessione A3 - Contributi Scientifici

Modena, 7 settembre 2016



* hands-on multimedia

h o m m m

shaping the future



IDEA

Homm-sw

Strumenti web per creare e condividere **narrazioni multimediali non lineari**

Obiettivo :

valorizzare il patrimonio tangibile e intangibile

in vari ambiti:

istruzione,

mediazione culturale,

turismo



Obiettivi specifici 1/4

Collegare attività generalmente tenute separate:

- *crowdsourcing* e condivisione di informazioni
- valutazione dell'efficacia dei contributi prodotti da attività individuali e di gruppo, e di programmi *hands-on*
- creazione e gestione di percorsi individuali di interazione prima, durante e dopo la visita in un museo



Obiettivi specifici 2/4

modularità e replicabilità nell'uso
di TIC

a diverse scale di intervento

coinvolgimento dei membri delle
“comunità “ in molteplici modalità

In laboratori

in attività hands-on

dentro e fuori dai musei



Obiettivi specifici 3/4

**innovazioni nell'apprendimento
lungo tutta la vita (LLL)**

Offrire soluzioni appropriate ai
bisogni di vasti gruppi di
persone (di qualsiasi età e
provenienza)

garantendo la qualità dei
contenuti condivisi e del
metodo scientifico con cui
sono elaborati



Obiettivi specifici 1/4

Sviluppare e rendere disponibili

- **documenti sulle specificità di un territorio** (storia, cultura, economia, istituzioni, società, ...) **dedicati al sistema dell'istruzione**
per rafforzare la consapevolezza delle connessioni tra dimensione locale e scala globale
- **materiali multimedia online**
per rendere più efficace l'uso delle risorse che vengono condivise



Homm-sw_a software application

<http://www.homm-museums-software.org>

Video: <https://vimeo.com/75972241>

<https://vimeo.com/75972241>

architecture
software

- Fornire **contenuti multimediali**



- Offrire **applicazioni interattive** (“Activities”) ai visitatori di un museo/durante un’esperienza hand-on
- Costruire **specifici strumenti per gestire le attività**, che possono condividere le stesse risorse
- Organizzare una **comunità** (produttori/utilizzatori di informazioni), attorno a un museo/un laboratorio/uno spazio ibrido



Utilizzatori

caricano le clip, creano tags,
condividono le clip nel
gruppo/comunità

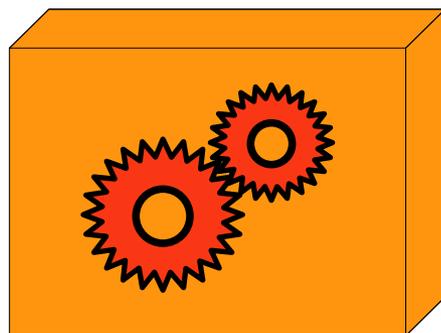
Amministratore

può gestire la pubblicazione
dei contenuti

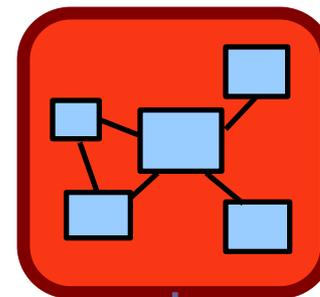




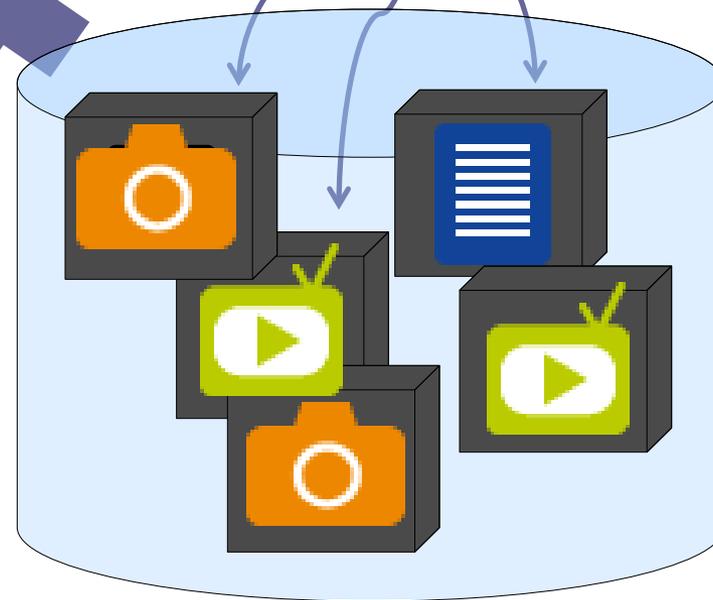
Motore per gestire l'attività autoriale



attività



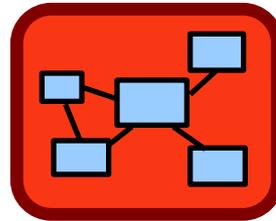
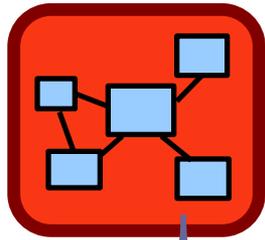
Deposito delle clip



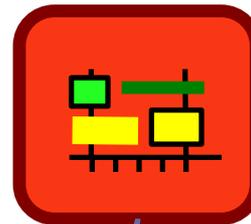
Gli autori: organizzano le clip e aggiungono specifici dati per l'attività (per es.: i nodi e i collegamenti per una "Rete di storie", le date e i luoghi di una "Linea del tempo")

Rete di storie "A"

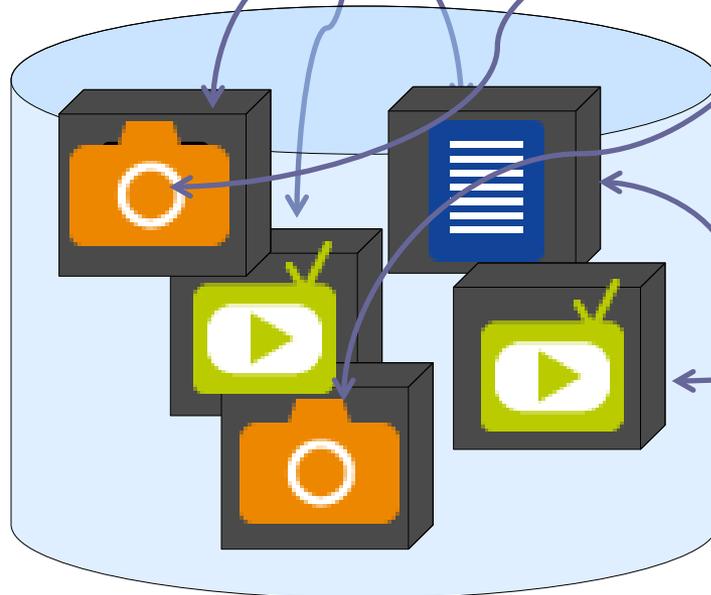
Rete di storie "B"



Timeline Ω

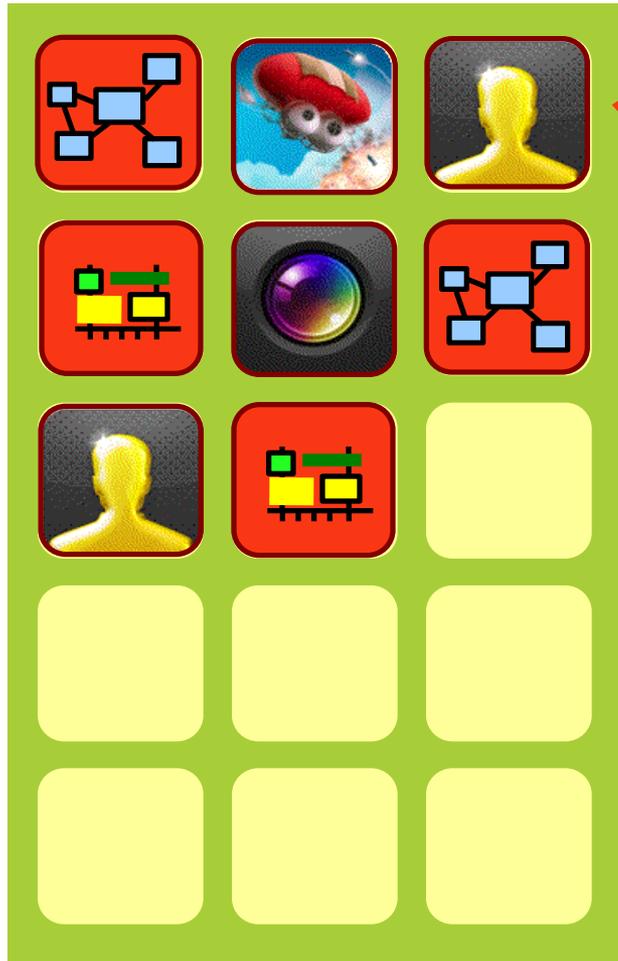


Altre attività
(simulazioni, giochi, prove di autovalutazione, statistiche, strumenti di comunicazione)



Spazio personale e istanza personale su un'attività

Attività



Spazio personale



Gli utilizzatori
sceglono le attività
e creano le istanze
nel loro spazio
personale

*l'istanza su un'attività =
struttura dell'attività +
lo stato in cui si
realizza l'interazione*



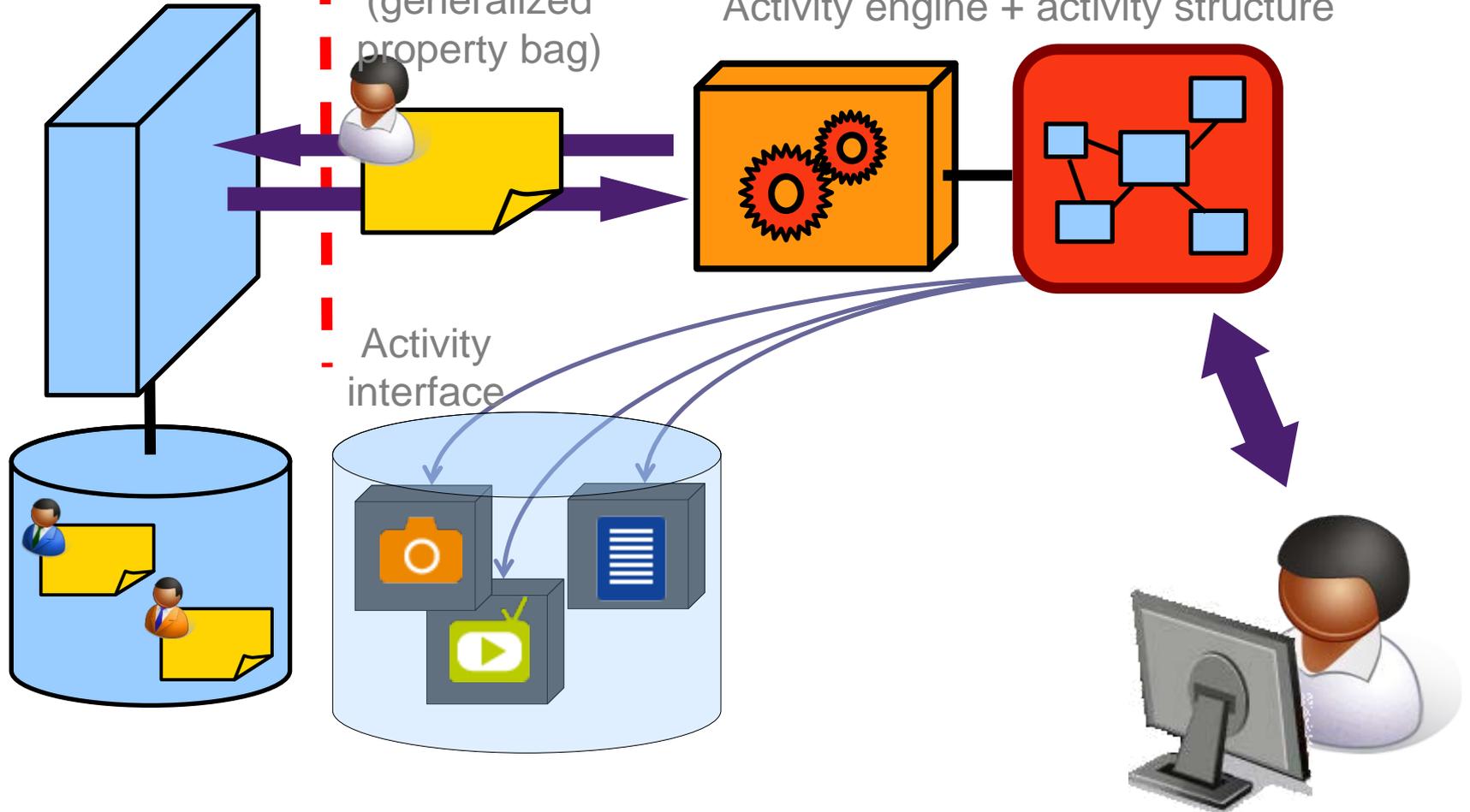
Stato di interazione dell'utilizzatore

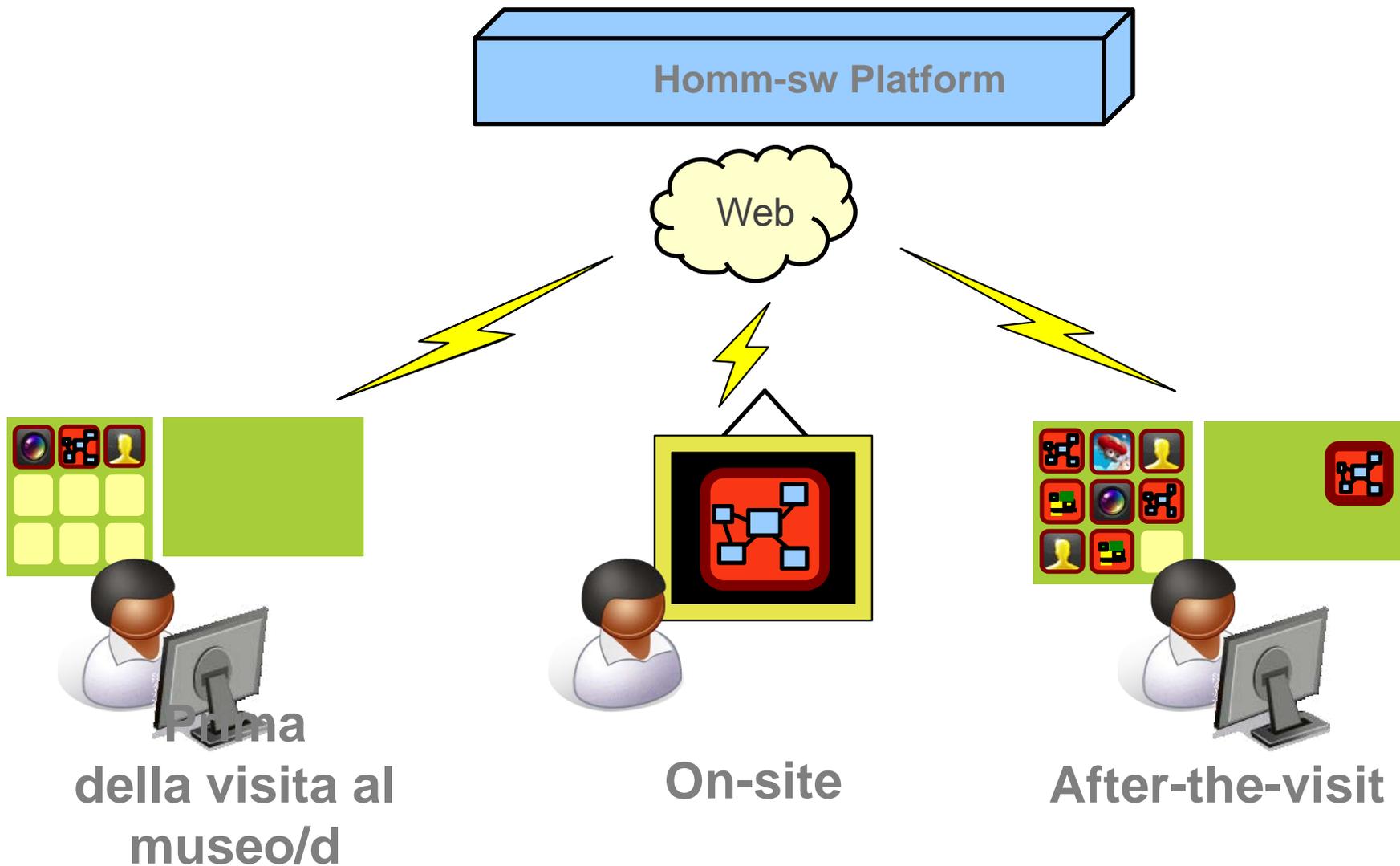
Stato_generalizzazione

Homm-sw Platform

Stato dell'attività
(generalized
property bag)

Activity engine + activity structure

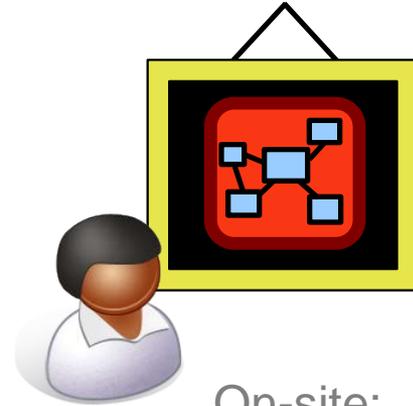




utilizzatori: identificazione & ruoli



Web:
credenziali (unm/pwd)



On-site:
prossimità o identificazione visuale

Ruolo
dell'amministratore



Ruolo del tutor



Autenticazione del ruolo
degli utilizzatori



gruppi



contenuti
e qualità della
narrazione

Spunti a mo' di conclusione

- Costruire contenuti appropriati
- Creare e utilizzare diverse media
- valorizzare una prospettiva comparata
- Gruppi di lavoro
- Competenze multidisciplinari

Acknowledgments | credits | contacts | more information |

Crafts Museum

New Delhi, India | <http://nationalcraftsmuseum.nic.in>

Officina Emilia

University of Modena and Reggio Emilia | <http://www.officinaemilia.it>
<http://www.facebook.com/pages/Officina-Emilia/139436386181228>

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Communication
and graphics

Elisabetta Ognibene | Art Director - AVENIDA | Modena, Italy
www.avenida.it

Sw developers

Agnese Fogli, Mauro Mattioli

Our thanks to

Kanu Agrawal, Elena Bassoli, Lidia Bonifati, Giulia Brandoli, Marie Eve Celio, Ilan Chabay, Siddhartha Das, Barbara de Micheli, Sander van der Leuw, Agnese Fogli, Sudha Gopalakrishnan, Francesco Guerra, Mushtak Khan, David Lane, Leopoldina Lopez y Royo, Stefano Mazza, Paola Mengoli, Maria Teresa Natale, Anna Natali, Sofia Pescarin, Giulia Piscitelli, Anita Rampal, Federico Remondi, Federica Rossi, Rossella Ruggeri, Zsofia Ruttkai, Anupam Sah, Pallavi Singh Keshri, Maddalena Vianello, Susanne Weishar

Website

www.homm-museums.unimore.it

Facebook

www.facebook.com/homm.museums



homm

In 15 minuti la presentazione finisce
qui



homm
shaping the future

<https://vimeo.com/75972241>

Let's start!

<http://www.homm-sw.org>



Benvenuto in homm-sw!

Homm_tecnologie dell'informazione e della comunicazione per i laboratori hands on e multimediali nei musei

La documentazione sul progetto homm e sulla applicazione sw si possono consultare on line www.homm-museums.org

Welcome to homm-sw!

Homm_ICT for hands-on and multi-media laboratories in museums

The full documentation on homm and homm_sw is available at www.homm-museums.org

homm_Officina Emilia

ITALIANO/ENGLISH

Sito web del progetto / *project website*: [Officina Emilia](#)

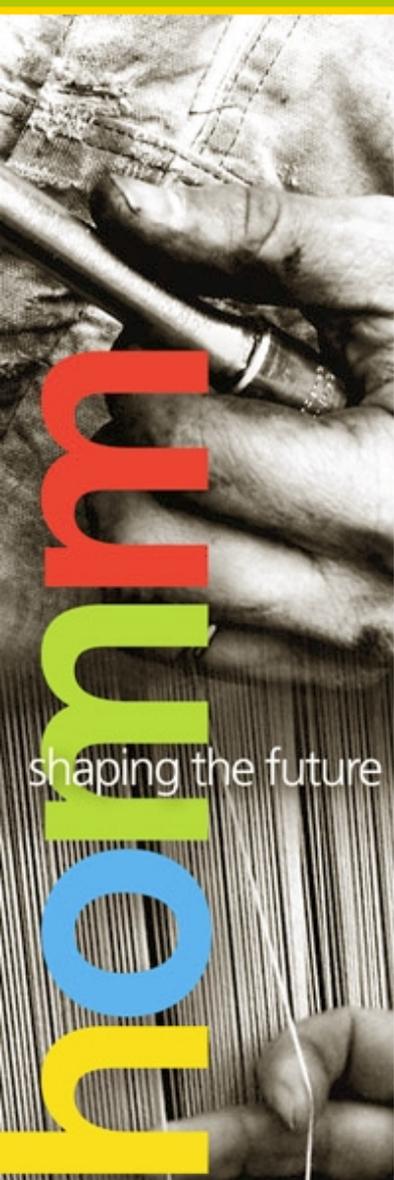
homm_Crafts Museum

ENGLISH

Sito web del progetto / *project website*: [Crafts Museum](#)

[Commenti / Feedbacks](#)





Accedi / Login

Per accedere, autenticarsi con le credenziali sono state fornite in fase di registrazione oppure, per accedere come ospite, usare "guest" sia come user che come password.

To login, authenticate with the credentials that were provided in registration or use "guest" as both user and as password.

Nome utente:

Password:

Accedi / Login

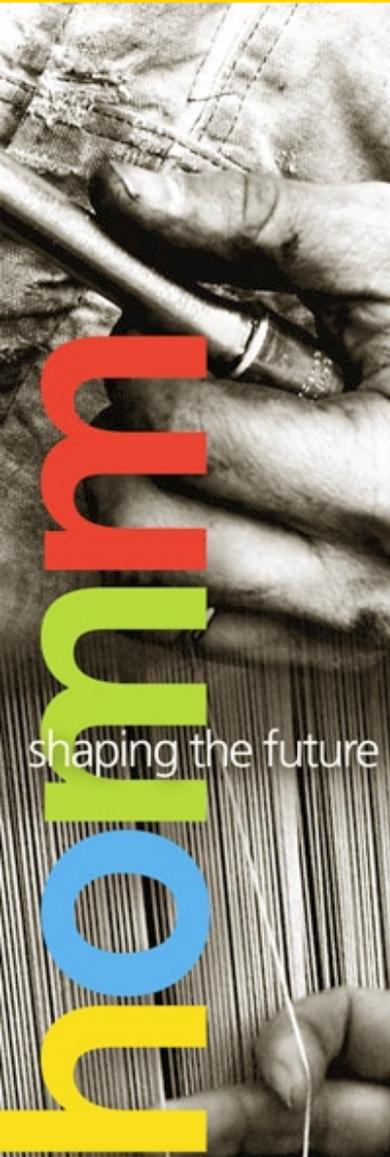
Per registrarsi
To register

Registrati qui / Register here

Password dimenticata?
Forgot your password?

Recupera / Recover

Login / registration



Registrazione nuovo utente *Registration form*

Nome Utente*
*Username**

Cognome*
*Surname**

Nome
Name

Email*

Password*

Ripeti password*
*Repeat password**

Conferma / Save

Welcome Margherita Russo

Logout

Attività homm / homm activities

Questionario
(Non disponibile)



Attività 1
(Non disponibile)



Un tornio a scuola



i consulta
browse

A lathe at school



i consulta
browse

Le mie attività / My activities (trascina le icone da sinistra nella tua area di attività)

Empty area for user activities.

Desktop

Welcome Margherita Russo

[Logout](#) [Admin](#)

Attività homm / homm activities

Questionario
(Non disponibile)



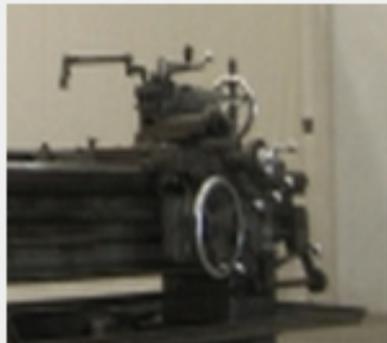
Attività 1
(Non disponibile)



Le mie attività / My activities

(trascina le icone da sinistra nella tua area di attività)

Un tornio a scuola



i consulta
browse 

A lathe at school



i consulta
browse 

Selected activities: story-net

Welcome Margherita Russo

[Logout](#) [Admin](#)

Attività homm / homm activities

Questionario
(Non disponibile)

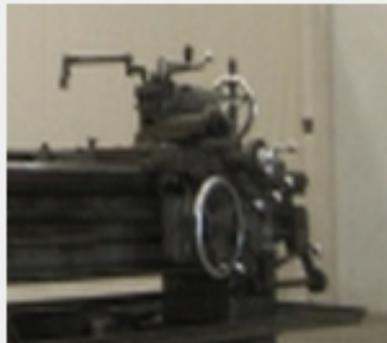


Attività 1
(Non disponibile)

Le mie attività / My activities

(trascina le icone da sinistra nella tua area di attività)

Un tornio a scuola



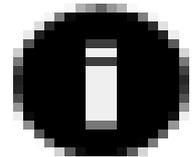
i consulta
browse 

A lathe at school



i consulta
browse 

The selected activities: story-net
information



Attività homm / homm activities

Questionario
(Non disponibile)



Attività 1
(Non disponibile)



Le mie attività / My activities

(trascina le icone da sinistra nella tua area di attività)

Un tornio a scuola



i consulta
browse



A lathe at school



i consulta
browse



Produced in 1942, the Monarch lathe arrived in Modena in 1945 following the U.S. Army. For forty years it had been used in a technical school, that auctioned it in 1999. Officina Emilia searched for this lathe and in 2006 brought it at the centre of OE' venue. Why a manual tooling technology of the lathe was important in learning the technology of automatic lathes? Why that lathe, put up for auction, it was bought and then re-used in a workshop? Why do we need to share the social value of mechanical skills that have contributed and continue to contribute to the development of the local economy? Browsing this network of stories, there are answers to these and other questions to be explored among more

www.homm-museums-software.org/Repository/Activities/att_5_min.jpg

The selected activities: story-net
information

Welcome Margherita Russo

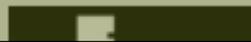
[Logout](#) [Admin](#)

Attività homm / homm activities

Questionario
(Non disponibile)



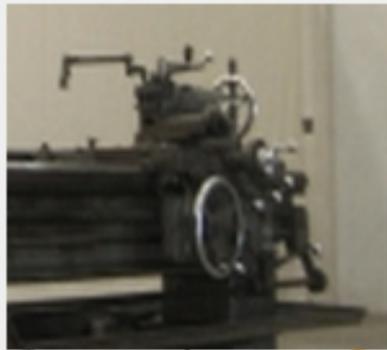
Attività 1
(Non disponibile)



Le mie attività / My activities

(trascina le icone da sinistra nella tua area di attività)

Un tornio a scuola



i consulta
browse 

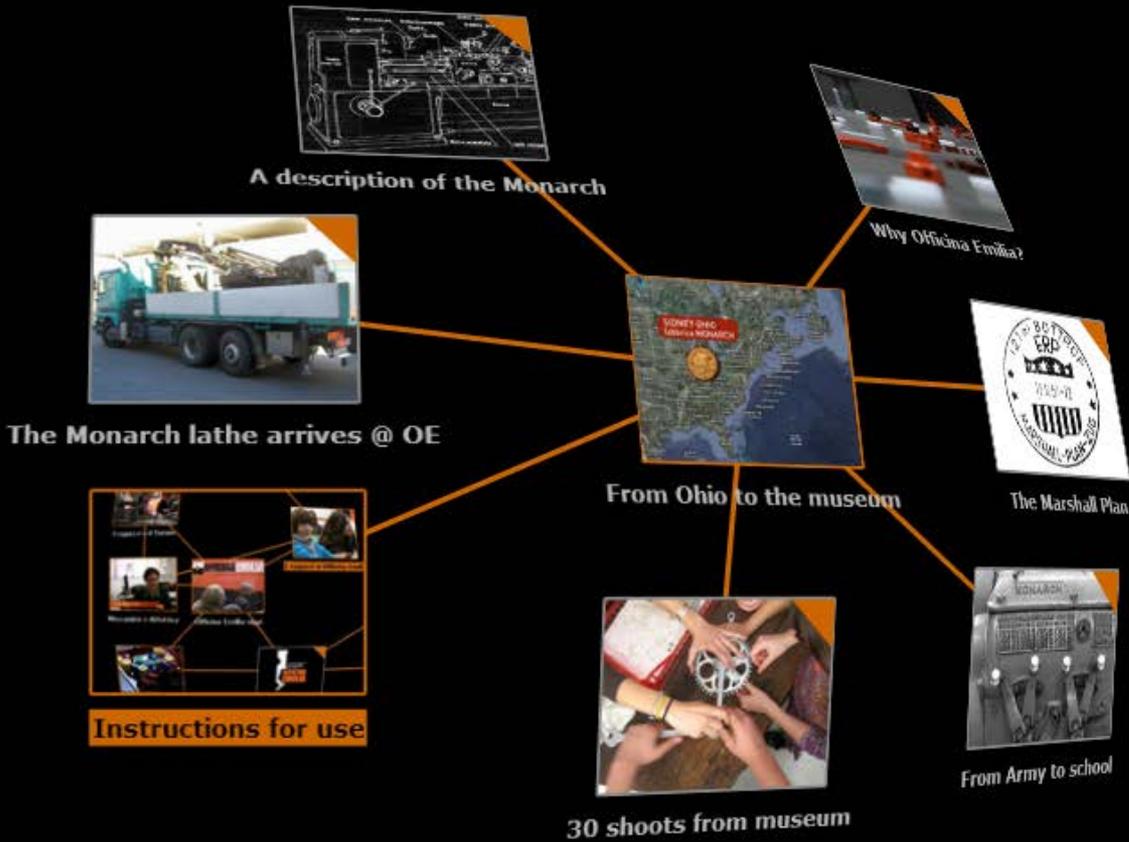
A lathe at school



i consulta
browse 

The selected activities: story-net
play





02:11



Instructions for use



How to play the storynet
Start... instruction for use



Kids and lathe

The way we were

The la...

The Fermo Corri Institute

Cornio80 and MEM

From Ohio to the museum

OFFICINA EMILIA

Sweden

The secrets of mechanics

eng. mauro mattioli
HOMM project

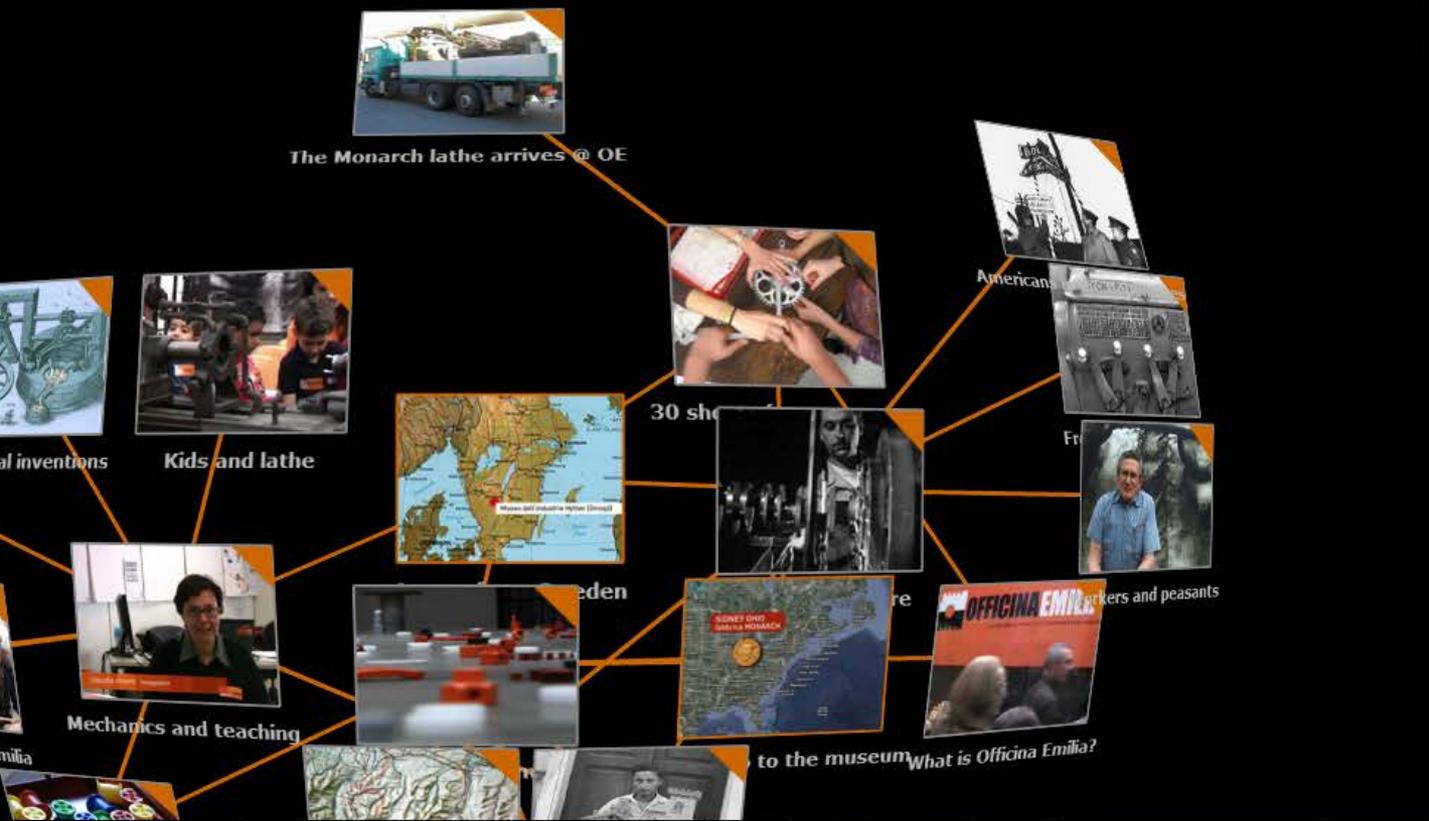
storynetwork

Instructions for use

From Ohio to the museum

How to play the storynet 

Move a clip to the viewfinder → it appears in the playlist on the right



- Instructions for use
- From Ohio to the museum
- A case from Sweden

How to play the storynet



Move another clip to the viewfinder → in the playlist on the right

are.org/HOMM/StoryNetviewer.aspx?serId=6761786879750F06

Home

description

From Army to school

The Marshall Plan

A network of stories

OE's educational services

What is Officina Emilia?

Corni80 and MEMO projects

From Ohio to the museum

From Ohio to the museum

A case from Sweden

Why Officina Emilia?

The Monarch lathe arrives @ OE

Instructions for use

From Ohio to the museum

A case from Sweden

30 shoots from museum

30 shoots from museum

How to play the storynet



Move another clip to the viewfinder → in the playlist on the right

The screenshot displays a StoryNet viewer interface. The main area is a network of interconnected video clips, each with a title and a thumbnail image. The clips are connected by orange lines, forming a web-like structure. The clips include:

- the lathe @ AFS
- the lathe arrives @ OE
- Kids and lathe
- Born from
- The OE robotics laboratories
- services
- A case from Sweden
- How does the lathe work?
- Mechanics and teaching
- Mechanical innovations
- Imagine the future
- 30 shoots from music
- Kids in Emilia
- Officina Emilia oggi
- Officina Emilia
- Un ragazzo e il Tornio
- Un papà a Officina Emilia
- Meccanica e design
- Un attento di Officina Emilia

On the right side, there is a vertical playlist titled "Instructions for use". It contains several video icons and titles:

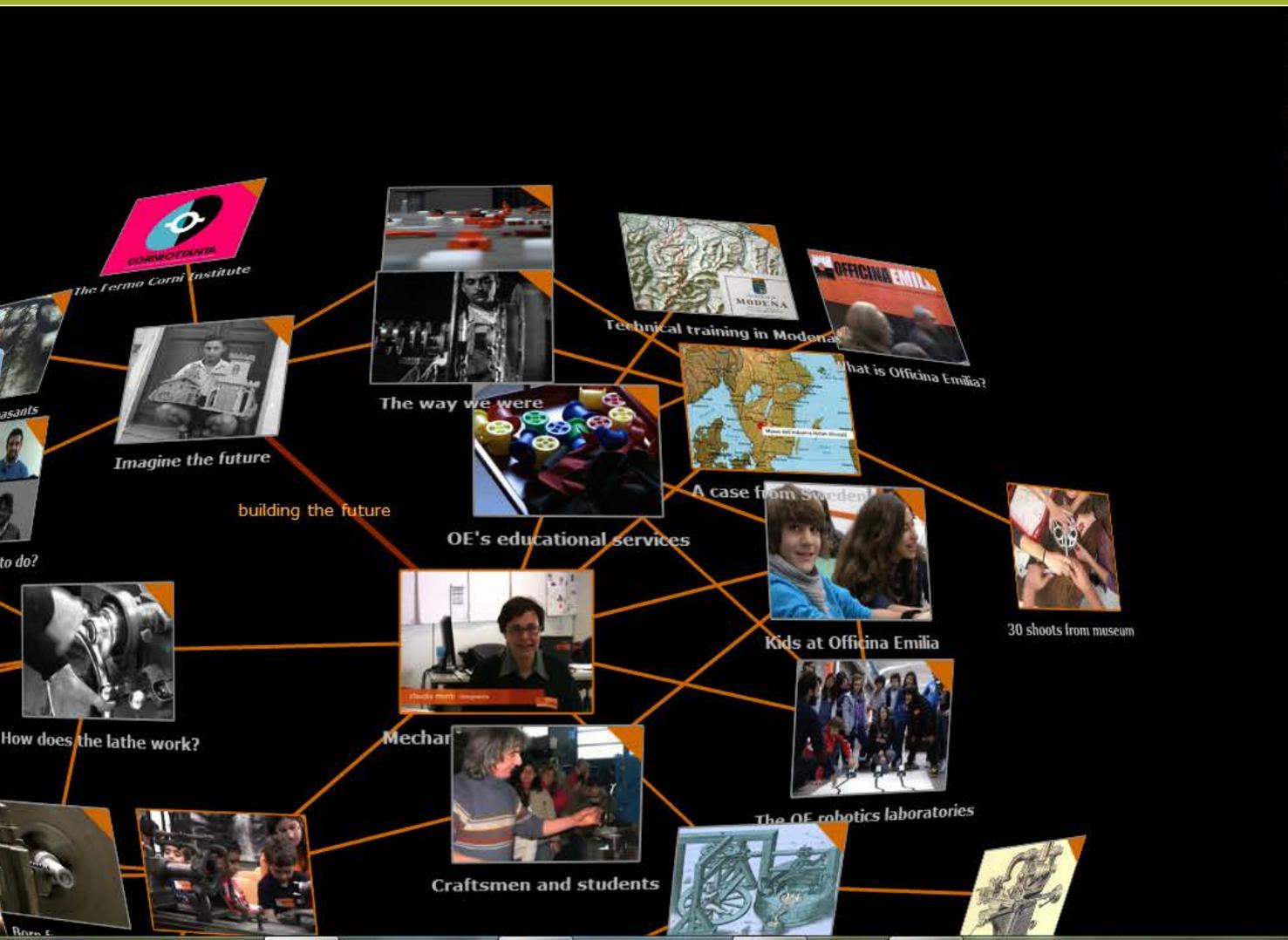
- From Ohio to the m
- A case from Swede
- 30 shoots from mus
- Kids and lathe

The interface also shows a browser address bar at the top with the URL "MM/StoryNetviewer.aspx?serid=6761786879750F06" and a navigation menu with folders like "In primo piano", "Avvisi", "Ateneo", "ricostruiremeglio", "Commenti per ricostruire...", "Novità SBA", "Novità", and "Banca d'Italia - Questioni...".

How to play the storynet



Move another clip to the viewfinder → in the playlist on the right



Instructions for use

- From Ohio to the museum
- A case from Sweden
- 30 shoots from museum
- Kids and lathe
- Mechanics and teaching

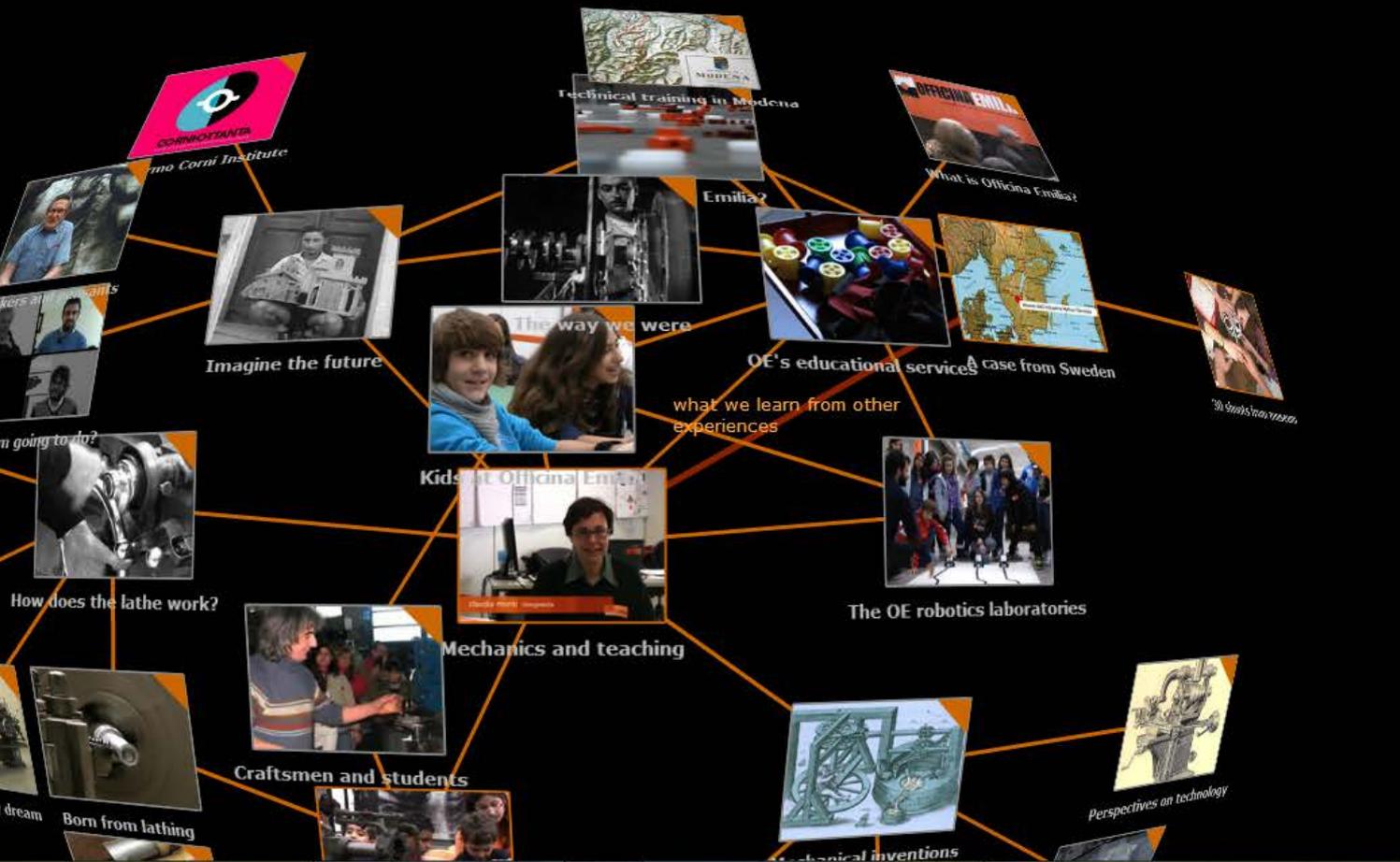
How to play the storynet
 Pulling a clip, a description appears on the link



SIDNEY OHIO USA

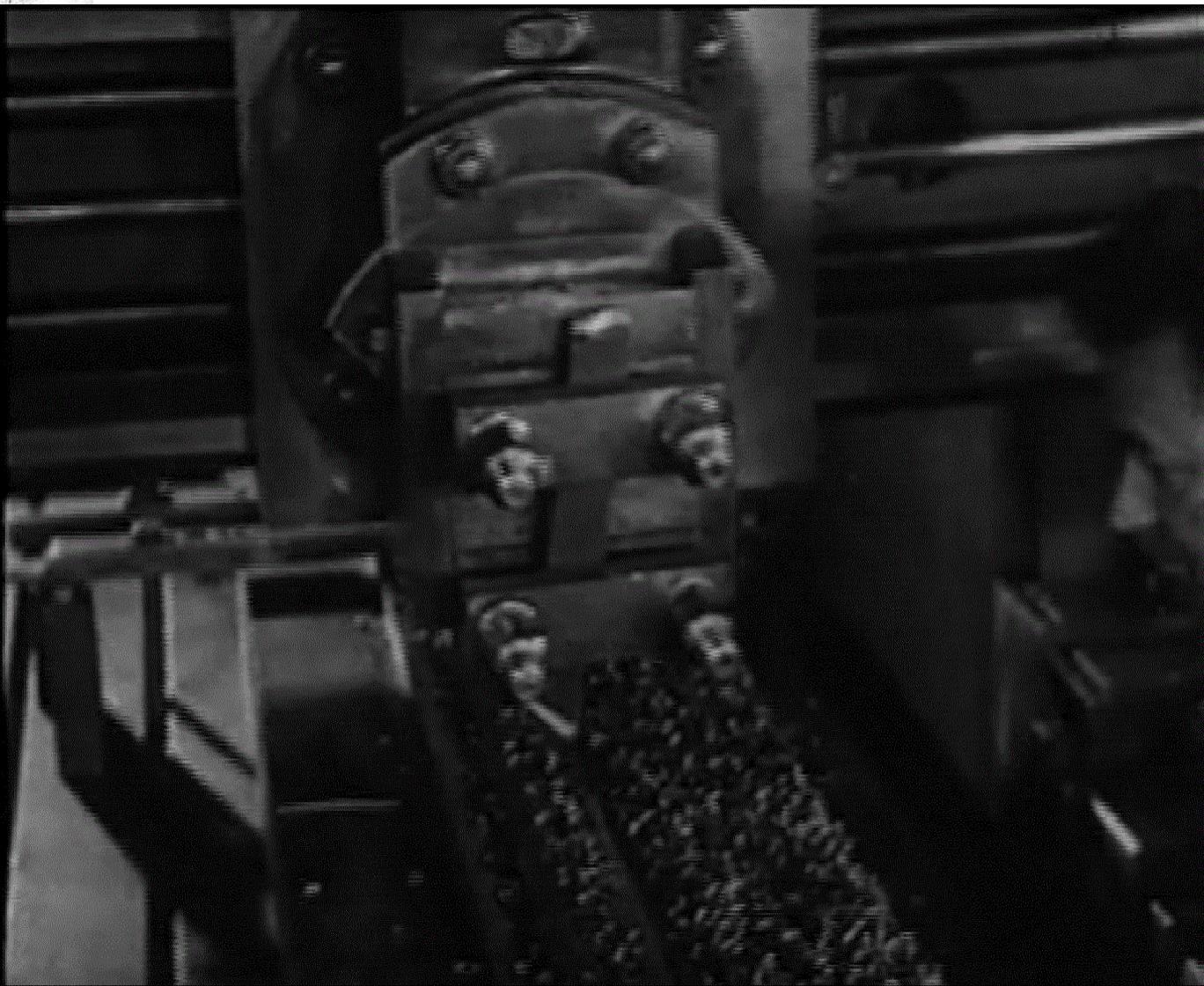
agosto

SIDNEY OHIO USA, august 1942, the Monarch lathe 16' s.n. 16838 is produced



- From Ohio to the museum**
- A case from Sweden**
- 30 shots from museo**
- Kids and lathe**
- Mechanics and teaching**

How to play the storynet **Pulling a clip, a description appears on the link**



02:59



Come eravamo

Three different players for different types of documents



→ video



Three different players for different types of documents

 → album of images and texts

Scheda MACCHINA UTENSILE
(scheda descrittiva per uso didattico)

TORNIO PARALLELO MONARCH

Three different players for different types of documents



→ texts and images in pdf

File Modifica Visualizza Cronologia Segnalibri Strumenti Aiuto

www.hommmuseumssoftware.org/HOMM/Desktop.aspx

HOMM = Desktop

homm shaping the future

OFFICINA EMILIA

Guida Cr

Welcome Margherita Russo

Attività homm / homm activities

Le mie attività / My activities (trascina le icone da sinistra nella tua area di a

A lathe at school

Demo_Eng

consulta browse

Questionario (Non disponibile)

Un tornio a scuola

Istruzioni_ita

consulta browse

consulta browse

The selected activities: story-net



Welcome Margherita Russo

attività homm / homm activities

Le mie attività / My activities (trascina le icone da sinistra)

ionario (disponibile)

Attività 1 (Non disponibile)

o_Eng

A lathe at school

consulta/browse

consulta/browse

Un tornio a scuola

consulta/browse

Istruzioni_ita

consulta/browse

consulta/browse & print

The selected activities: story-net
consulta/browse & print

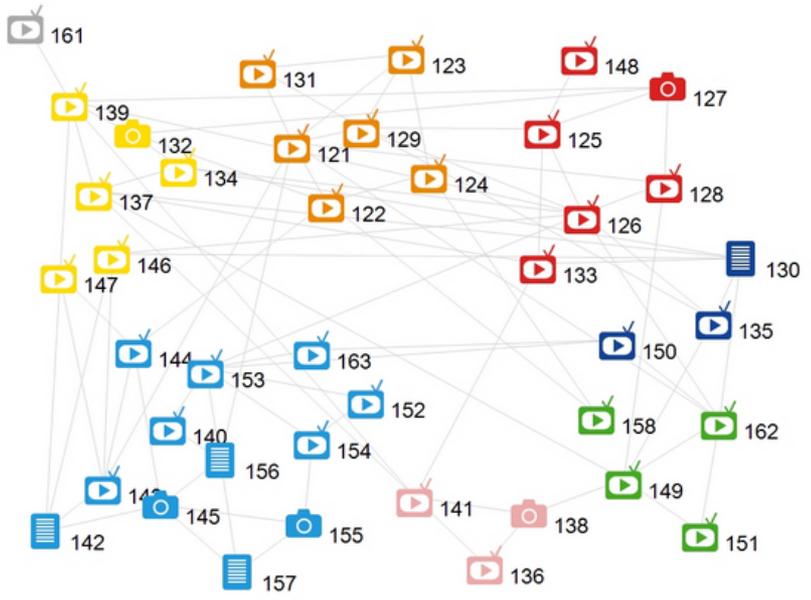
consulta/browse

A lathe at school

introduction | index | references | credits | contacts



< back to desktop



History of the Monarch lathe

- Album 132 The Monarch lathe arrives @ OE
- Video 134 The lathe @ AFS
- Video 137 From Army to school
- Video 139 From Ohio to the museum
- Video 146 A technology dream
- Video 147 From inches to millimetres

Education and training

- Testo 130 The Fermo Corni Institute
- Video 135 Technical training in Modena
- Video 150 What I am going to do?

Officina Emilia

- Video 125 What is Officina Emilia?
- Video 126 Why Officina Emilia?
- Album 127 30 shoots from museum
- Video 128 A case from Sweden
- Video 133 Corni80 and MEMO projects
- Video 148 A network of stories

Officina Emilia laboratories

- Video 121 Mechanics and teaching
- Video 122 Kids and lathe
- Video 123 Kids at Officina Emilia
- Video 124 Craftsmen and students
- Video 129 OE's educational services
- Video 131 The OE robotics laboratories

Inventions and mechanical technology

- Video 140 Mechanics and literature
- Testo 142 A description of the Monarch
- Video 143 How does the lathe work?
- Video 144 Born from lathing
- Album 145 The machine tools
- Video 152 Technology and research
- Video 153 The secrets of mechanics
- Video 154 Finite element, broken pieces
- Album 155 Images of a transformation
- Testo 156 Mechanical inventions
- Testo 157 Perspectives on technology
- Video 163 Technical drawings

Socio-cultural context

- Video 149 The way we were
- Video 151 Workers and peasants
- Video 158 Music, voices and sounds
- Video 162 Imagine the future

History

- Video 136 The Gothic Line



The selected activities: story-net
Clips in thematic areas

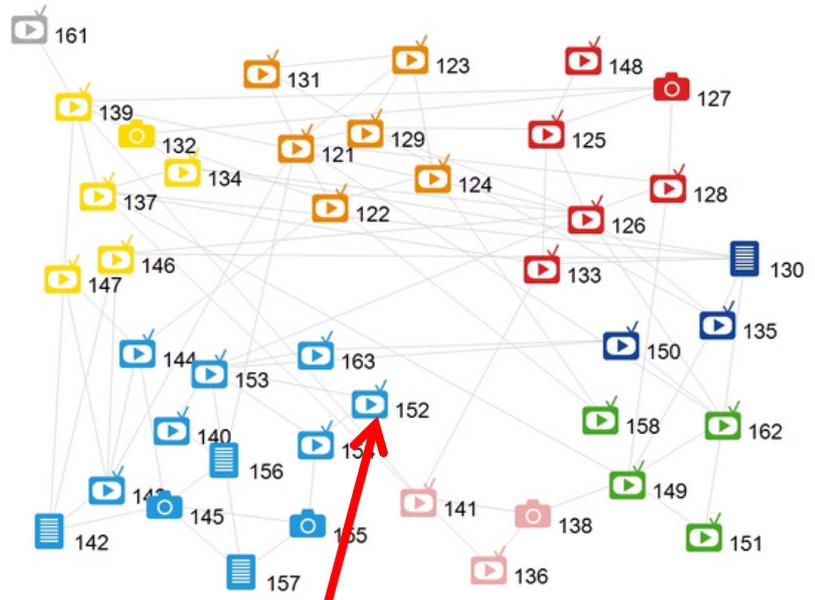
consulta
 browse

A lathe at school

introduction | index | references | credits | contacts



< back to desktop



- History of the Monarch lathe**
 - Album 132 The Monarch lathe arrives @ OE
 - Video 134 The lathe @ AFS
 - Video 137 From Army to school
 - Video 139 From Ohio to the museum
 - Video 146 A technology dream
 - Video 147 From inches to millimetres
- Education and training**
 - Testo 130 The Fermo Corni Institute
 - Video 135 Technical training in Modena
 - Video 150 What I am going to do?
- Officina Emilia**
 - Video 125 What is Officina Emilia?
 - Video 126 Why Officina Emilia?
 - Album 127 30 shoots from museum
 - Video 128 A case from Sweden
 - Video 133 Corni80 and MEMO projects
 - Video 148 A network of stories
- Officina Emilia laboratories**
 - Video 121 Mechanics and teaching
 - Video 122 Kids and lathe
 - Video 123 Kids at Officina Emilia
 - Video 124 Craftsmen and students
 - Video 129 OE's educational services
 - Video 131 The OE robotics laboratories
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 - Video 140 Mechanics and literature
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 - Album 145 The machine tools
 - Video 152 Technology and research
 - Video 153 The secrets of mechanics
 - Video 154 Finite element, broken pieces
 - Album 155 Images of a transformation
 - Testo 156 Mechanical inventions
 - Testo 157 Perspectives on technology
 - Video 163 Technical drawings
- Socio-cultural context**
 - Video 149 The way we were
 - Video 151 Workers and peasants
 - Video 158 Music, voices and sounds
 - Video 162 Imagine the future
- History**
 - Video 136 The Gothic Line



List of clips by subject
Select/klick on a clip

consulta
browse

143 How does the lathe work?

An explanation of how this machine tool works and which are its main technical characteristics

A lathe at school

Type
Video

Duration
00:05:21

Date of the interview
17 November 2011

Informants
Umberto Maletti

Thematic area
Inventions and mechanical technology



Direction
Stefano Mazza
Graphics
Susanne Weisnar



UNIMORE

FOND.LESSON



homino

STORICAL

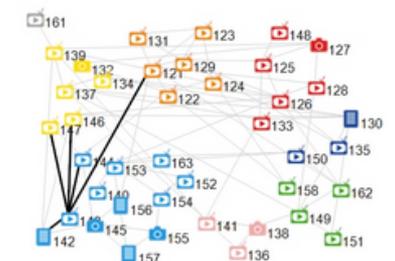
INSITE

Abstract

Umberto Maletti, former teacher of the Corni Institute, explains how the Monarch lathe works. He identifies the main components and explains their function. The main theme of the clip is intertwined with the history of lathe and with the mechanical technology.

Links to other clips

ID clip	Title	Link description
121	Mechanics and teaching	OE's workshops
142	A description of the Monarch	how does the Monarch lathe work?
144	Born from lathing	tools and products of mechanics
146	A technology dream	Monarch lathe's history
147	From inches to millimetres	how does the Monarch lathe work?



- History of the Monarch lathe
- Education and training
- Officina Emilia
- Work and economy
- Officina Emilia laboratories
- Inventions and mechanical technology

Text

Umberto Maletti, former teacher of the Corni Institute, Modena
How does this lathe work? Just like all normal lathes. It is equipped with an electric motor that turns a spindle, upon which the workpiece to be machined is placed.

This workpiece is rotated through a series of mechanisms inside the headstock. The part being worked may have different angular speeds, i.e. rpm's, to achieve the right cutting speed for the part to be machined. The different speeds could be set through these four levers. At that time, this was already a state-of-the-art gearbox with four levers and 16 different rotation speeds. By changing the combination of the various levers, the number of revolutions of the machine could then be changed. Once the workpiece was placed in rotation, it was machined by means of the tool, as I mentioned before. The tool can be of different shapes, sizes and also materials. The tool is locked over a headstock, called tool holder, as shown here. Once locked, placed at the right height, adjusted, then by means of these levers and cranks you get closer to the workpiece to be machined. You need to set the size you want and, having set the trolley to automatic, you let it go forward. You will then activate the automatic feed by means of these levers: the tool comes forward while machining the workpiece.

This lathe was state-of-the-art at the time, as I have mentioned earlier. While in other lathes the tool holder headstock can change direction, but it cannot be taken off, this lathe is equipped with an automatic tool changer.

Up to four tools can be mounted at the same time on this lathe, working one at a time, but clearly, once the headstock is rotated, the tool is already in position. It is not necessary to reposition the tool every time.

The tool needs adjustment at the start of the machining phase. This allows us to have batch production, because, by means of different tools mounted on the lathe, different types of machining are possible. Lengths were established by means of a locking device, such as this one. The trolley comes forward and stops at the locking device, and then it can be changed and we can move on to another type of machining.

The trolley is driven by this fly wheel that enables its longitudinal movement, which could be either manual or automatic. By first activating its feed and then this lever, it would allow an automatic feed. Or it could be used diagonally. By means of this other fly wheel the tool is positioned to achieve the necessary depth of cut that is required

List of clips by subject

Selected clip

consulta
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146 A technology dream

Giorgio Ansaloni saw the Monarch lathe when he was at school, and was very impressed by its firmness and power. He didn't see the lathe for sixty years, and his surprise was to find it, at Officina Emilia, exactly as he dreamed of it

A lathe at school

Type

Video

Duration

00:03:43

Date of the interview

30 November 2011

Informants

Giorgio Ansaloni

Thematic area

History of the Monarch lathe



Direction

Stefano Mazza

Graphics

Susanne Weishar

Abstract

Giorgio Ansaloni, craftsman, former student of the "Fermo Corni" Institute, talks about his meeting with the Monarch lathe. He saw it for the first time when he was a student, in the school years 1951-1952, then he lost sight of the lathe and then he saw it again after sixty years at Officina Emilia, the same that he left a long time ago.

The lathe so impressed him, that it became a sort of dream (as said the clip title), for its power, its firmness and for its technology ("it had so much speeds"), not absolutely common in those years.

The themes of the clip are, first of all, the history of Monarch lathe and then its technology. Also, the history of the "Fermo Corni" Institute, where Mr. Ansaloni saw the machine for the first time and the imagery of a young man, who in the Fifties formed in Modena his expectations of work and life.

Links to other clips

ID clip	Title	Link description
126	Why Officina Emilia?	find the roots of a dream
130	The Fermo Corni Institute	Monarch lathe's history
142	A description of the Monarch	how does the Monarch lathe work?

Text

Giorgio Ansaloni, craftsman - consultant at [Officina Emilia](#)

I graduated from the "Fermo Corni" Technical Institute of Modena in the school year 1951 and at the beginning of 1952, as I was in good relations with my teachers, every now and then I would go back to school to learn about the different processing methods, because I was very fond of mechanics.

I remember this machine in particular, the Monarch lathe, which impressed me very much for being a rather powerful machine, heavier than all the other machines that we would use for educational purposes. I was impressed by the solidity of this lathe and all the technology built into it. It had a whole range of feed and speed settings, which I knew by heart. It has stayed on my mind for many years until one day I went to Officina Emilia and saw it, exactly as I had last seen it when I was 17 years old.

With one difference though: namely that I have seen it 60 years later.

This machine impressed me for its size, conditions - at that time, it was almost a brand new machine, because, from what I could read on its label, it had been built in 1942.

I saw it in 1951. And for a machine like this, 9 years of life are nothing.

Having never seen any other machine so powerful and large, I was really impressed, also because no such machines could be found around here at that time.

It must have been carried to Italy by a truck transporting workshop equipment that belonged to the U.S. Army.



149 **TITLE of the clip**
CAPTION **TITLE of the storynet**

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META DATA

link to the video

META DATA on the clip_video

Type
Video

Duration
00:02:27

Thematic area
Socio-cultural context



Resource description identifier
Clips: Pirelli
Duykin
Luzerna: Welter

ABSTRACT

Abstract
 The clip shows an excerpt from the movie by Carlo Lizzani "Modena, a city in the red shirt" (1949). In particular, the excerpt describes the industry and workers of those years. The clip gives space to noises and gestures typical of the factory. The clip covers the 40s (machines tools, coaches, workers, engines); the importance of workers, quality and autonomy of whom were assured by the high specialization; the importance of trade unions. Moreover, the voice over talks about the project of the racetrack building a very important project that is compared to a like Indianapolis racetrack. The clip helps to reconstruct the context in which the Monarch lath operated: a context composed by very important factories, in which the technical training had a strategic role and in which the future was designed.

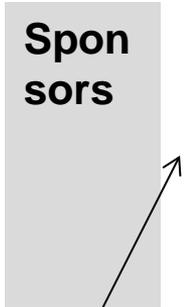
Text
 Taken from the documentary by Carlo Lizzani "Modena, a city in red shirt" (1949)
 "Lanfranco saved Modena's inhabitants to build the cathedral of the had designed the... Modena's workers... From a technical and... blue-collar workers are highly qualified, a... When entering the factory gate, they... give up to their personal dignity. They do not regard themselves as... luxury do have a pro... Modena workers... most efficient in... The Italian... bodies and machine tools are manufactured... the end of the assembly line, the brand new cars do not have a long way to go before their first competition. To support... the automotive industry, threatened by a crisis, the Municipality has become a promoter and supporter of firm-aided projects launched by the Automobile Club and by the Aero Club, which had been inactive for five years. The project consists in the construction of a motor racing circuit, whose characteristics are similar to those of the Indianapolis track. Spectators will be able to follow the race without mistaking a beat from all angles of the track. Mr. Donat, the president of the Automobile Club and project proponent, explains the project Farina and Villorai before the camera on the track while works are still being finalized. A 3,760 m long track is built, but expandable up to 4,000 m. Once the project is completed, it will include, besides the spectator stands, gas filling stations for cars and airplanes, a travelers' station, international security check-points for cars and airplanes, hotels, restaurants, car and aircraft hangars. 100,000 work days have been carried so far and at the end of the project more than 200,000 work days will be needed to complete the project. The motor racing track will also serve as airport: airplanes will fly directly to London and to other major European destinations, loaded with fruit and vegetables of the Emilia experiment. But there is no domain in town in which the Municipality is not engaged in, working on an intense transformation process.

TRANSCRIPT OF THE DIALOGUES IN VIDEO clips

Links to other clips

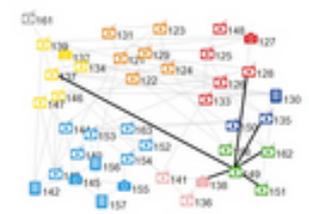
ID clip	Title	Link description
126	A case from Sweden	our origins
122	Technical training in Modena	socio-economic history of Modena
127	From army to school	U.S. aid
124	Americans in the Aggerinae	the way we were
121	Workers and peasants	socio-economic history of Modena
142	Imagine the future	socio-economic history of Modena

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HYPERLINKS TO OTHER RELATED CLIPS



SOURCES of the clip

- History of the Monarch
- Education and training
- Officina Emilia
- Work and economy
- Officina Emilia laboratory
- Inventions and mechanical technology
- Socio-cultural context
- History
- Storynet_tool
- Video
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LEGENDA OF SUBJECTS and types of clips

Hyperlink to the list of clips by subject and type