

DELIVERABLE REPORT

D 8.9 European Virtual Museum Observatory

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Executive Summary

This deliverable lists information about competences that are useful for the virtual museum domain and lists applications, institutions and SMEs having those competences or having developed Virtual Museum projects, applications or tools.

The goal of this list is to provide context, in-depth information and new developments concerning a range of competences, linked to virtual museums. A list of useful other resources are also added in the last chapter.

For example, most of the “natural interaction” developments within V-MusT are based upon the Kinect1 and Kinect2 cameras. The provided links do not only give information in what aspects a Kinect2 camera is better or different than a Kinect1 camera (which is quite crucial in designing spaces where such a natural interaction setup will be used) but also that the Kinect-cameras are based upon hardware and software from PrimeSense, which recently has been bought by Apple. This means that it is quite unlikely that Microsoft will continue its line of Kinect cameras, so that it is really necessary to make new natural interaction developments based upon Kinect independent of the sensor to guarantee that such developments will be sustainable and maintainable for the coming years.

This list is only a start, it will be kept updated by the members of the V-MusT Competence Centre, and act as a starting point for developing new applications. This list does not claim by no means to be complete, even not in specific areas, as this is impossible.



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Virtual Museums: technologies & tools

Natural Interaction

Natural Interaction – Kinect

Etruscanning 3rd gen (long) <https://www.youtube.com/watch?v=iiW4dbfo5yU>
Etruscanning 3rd gen (short) <http://vimeo.com/58527157> <http://vimeo.com/61736198>
Interactive image and sound <http://www.gizmag.com/firewall-spandex-audio-visual-performance-membrane/25620/>
3D GIS for Archaeology <http://vimeo.com/50673261>
Interactive manipulation <https://www.youtube.com/watch?v=WrlDMAF4rtU>
Kinect and Unity http://wiki.etc.cmu.edu/unity3d/index.php/Microsoft_Kinect_-_Microsoft_SDK
Kinect and Unity <http://zigfu.com/en/zdk/overview/>
Vrouw Maria project <http://sysrep.aalto.fi/vrouwmaria/>
Maintenance training https://www.youtube.com/watch?v=_904Cppeb4o
Fitnect virtual dressing room <https://www.youtube.com/watch?v=1jbnk1T4vQ>
Fitnect <http://www.fitnect.hu/>
Kinect applications <http://www.gizmag.com/tag/kinect/>
Kinect2 <http://www.gizmag.com/kinect-v2-windows/31490/>
Kinect for Windows blog <http://blogs.msdn.com/b/kinectforwindows/>
Skeleton toolkit <http://projects.ict.usc.edu/mxr/faast/>
Tiber valley <http://vimeo.com/107151367>
Apple bought Primesense <http://appleinsider.com/articles/14/07/11/apples-secret-plans-for-primesense-3d-tech-hinted-at-by-new-itseez3d-ipad-app>
Interactive 3D terrain models <https://www.facebook.com/video.php?v=1420726251558170>

Natural Interaction – Intel RealSense

Intel RealSense preview <http://www.stereoscopynews.com/hotnews/3d-technology/software-a-hardware-tools/3521-intel-realsense-gesture-recognition-3d-cameras-are-coming>
Intel RealSense <http://www.intel.com/content/www/us/en/architecture-and-technology/realsense-overview.html>
Intel RealSense SDK <http://click.intel.com/intel-realsense-developer-kit.html>
RealSense-Softkinetic deal <http://www.stereoscopynews.com/hotnews/3d-technology/various-a-strange-facts/3167-3d-cameras-in-softkinetics-intel-deal.html>



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Xtion Pro http://event.asus.com/wavi/product/WAVI_Pro.aspx

Natural Interaction – LEAP Motion

Leap Motion <https://www.leapmotion.com/>

Leap at APM <https://www.youtube.com/watch?v=tmM1MzVvMp0>

Natural Interaction – others

Gestures app on Windows Phone <http://www.zdnet.be/nieuws/159854/bedien-windows-phone-zonder-het-scherm-aan-te-raken/>

Cheap gesture recognition <http://www.gizmag.com/mit-cheap-easy-gesture-recognition-system/15229/>

Aquae Patavinae <https://www.youtube.com/watch?v=0qbgmyLclEQ>

SpaceTop 3D <http://www.bbc.com/news/technology-21603323>

Navdy <https://www.navdy.com/>

SkyMouse <http://www.gizmag.com/skymouse-wireless-mouse/28238/>

SoftKinetic <http://www.softkinetic.com/>

Senz3D <http://nl.creative.com/p/web-cameras/creative-senz3d>

Senz3D <http://www.gizmag.com/hands-on-with-the-creative-senz3d/28975/>

Haptic interfaces

Sightlence <http://sightlence.com/>

Haptics vest <http://korfx.com/>

Haptics tablet <http://www.fujitsu.com/global/about/resources/news/press-releases/2014/0224-01.html>

Stereoscopic, dome and 3D visualisation

Oculus VR <http://www.gizmag.com/samsung-gear-vr-oculus-review/35266/>

zSpace <http://www.gizmag.com/zspace-3d-display/25586/>

3D not good for your eyes <http://www.zdnet.be/ontspanning/146544/is-3d-cinema-wel-gezond-voor-je-ogen-/>

Maya Skies (dome visualisation) <http://www.mayaskies.org/>

Oculus VR <https://www.oculus.com/>

Future of Oculus Rift <http://www.gizmag.com/oculus-rift-future-non-gaming-uses/35570/>



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Google Cardboard <http://www.zdnet.be/review/157041/aan-de-slag-met-googles-kartonnen-virtual-reality-bril/>
Google Cardboard XG VR <http://www.gizmag.com/consumer-google-cardboard-xg-vr/35619/>
Zeiss VR One <http://www.gizmag.com/zeiss-vr-one-review/36156/>
3D video mapping projections on buildings and objects <http://www.nuformer.com/>
Mocap Mapping <http://vimeo.com/39013913>
Amazon 3D smartphone <https://www.youtube.com/watch?v=vNvMNfv0d9U>
Amazon Fire Phone review <http://www.techradar.com/reviews/phones/mobile-phones/amazon-fire-phone-1259146/review>
Amazon Dynamic Perspective <http://www.digitaltrends.com/mobile/amazon-smartphone-3d-effect/>
DirectX 11 tessellation <http://www.nvidia.com/object/tessellation.html>
DirectX 11 tessellation <https://www.youtube.com/watch?v=L5fOwSmSaW8>
Auto-stereoscopic screens <http://alioscopy.com/en/>
Elumenati <http://www.elumenati.com/>
Samsung Gear VR <http://www.gamespot.com/articles/virtual-reality-goes-mobile-as-oculus-powered-gear/1100-6424074/>
BBC stops 3D TV <http://www.theguardian.com/media/2013/jul/05/bbc-shelves-3d-takeup>
BBC stops 3D TV <http://www.bbc.com/news/entertainment-arts-23195479>
Oculus Rift for UAVs <http://www.gizmag.com/oculus-rift-fpv-uav/28493/>
WorldViz <http://www.worldviz.com/>

Panoramic visualisation

Liquid Galaxy (Google) <http://www.google.com/earth/explore/showcase/liquidgalaxy.html>
IllumiRoom (Microsoft) <http://www.gizmag.com/microsoft-illumiroom-augmented-reality/27358/>
ALiVE's iDOME <http://vimeo.com/46742327>
ALiVE 360 Scroll Experience <http://vimeo.com/63385523>
Photosynth <http://www.zdnet.be/nieuws/149500/3d-fotocollages-photosynth-onderweg-naar-skydrive-com/>
Andalucia Virtual <http://www.andaluciavirtual.com/>
Scalable Desktop <http://www.scalabledisplay.com/products/software-only/scalabledesktop%E2%84%A2>
Squito <http://www.gizmag.com/squito-throwable-camera/28223/>
Panoramic video <https://www.youtube.com/watch?v=RPyC9VcTTQQ>
Panoramas Balkan area <http://rollmaps.com/>



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Scientific visualisation <http://www.scivis.it/>

3D for iBooks <https://www.strata3duniversity.com/2012/02/creating-3d-objects-for-ibooks/>

3D for iBooks <http://www.appletips.nl/hands-on-3d-modellen-toevoegen-in-ibooks-author/>

Statue of Augustus in Naronna <http://dev.n-media.biz/demo/naronna/7.html>

Aquae Patavinae <http://www.aquaepatavinae.it/>

HTML5 demos <http://html5demos.com/>

WebGL demo <http://helloracer.com/webgl/>

Simulation in HTML5 <http://andrew-hoyer.com/>

Maya Arch 3D <http://mayaarch3d.unm.edu/>

Flashificator interactives <http://flashificator.com/>

Château de Versailles 3D (Chaos to Perfection)

<http://www.chaostoperfection.com/scenes.html?lang=en>

Sistine Chapel (Vatican) http://www.vatican.va/various/cappelle/sistina_vr/index.html

Unity3D and HTML5 <http://www.gamasutra.com/view/news/38805/>

Unity3D and Flash

http://www.gamasutra.com/view/news/191112/Unity_drops_Flash_support_says_Adobe_is_not_firmly_committed.php

Remote rendering + HTML5 <http://xts.uchicago.edu/3d-models/1>

Remote rendering + HTML5 <http://www.digitalsculpture.org/>

Nexus 3D streaming <http://vcg.isti.cnr.it/nexus/>

3D HOP (3D Heritage Online Presenter) <http://vcg.isti.cnr.it/3dhop/>

HTML5 apps & games <https://www.ludei.com/>

SketchFab <http://sketchfab.com/>

SketchFab examples <http://3dartdh.wordpress.com/category/sketchfab-2/>

WebGL Learning Lab <https://mozillaignite.org/resources/labs/future-uses-of-webgl/>

HTML5 WebGL on Ouya <https://www.youtube.com/watch?v=yypqkAo1jgo>

WebGL samples <http://webglsamples.org/>

CopperCube <http://www.ambiera.com/coppercube/>

WebGL Conformance tests <https://www.khronos.org/registry/webgl/sdk/tests/webgl-conformance-tests.html>

Learning WebGL <http://learningwebgl.com/blog/>

3D cloud visualization and distribution platform <http://home.lagoa.com/>

YouTube on HTML5 <http://www.popsci.com/youtube-now-plays-html5-video-by-default-eschews-adobe-flash>



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Augmented Reality

Blender motion tracker_

http://wiki.blender.org/index.php/Dev:Ref/Release_Notes/2.70/Motion_Tracker

Blender motion tracker demo <http://vimeo.com/105489951>

Animated augmented reality for museums

<https://www.youtube.com/watch?v=NJXL-qN8Lx8>

Animated augmented reality for museums <https://www.youtube.com/watch?v=nkbwiQrdGMO>

Animated augmented reality for museums <https://www.youtube.com/watch?v=FEIwSo2UzQ4>

Augmented reality https://www.youtube.com/watch?v=nT4Km1We_1w

Augmented museum <https://www.youtube.com/watch?v=sCX-M7-olD8>

Light Painting <http://vimeo.com/14958082>

The Wall of Knowledge <https://www.youtube.com/watch?v=vCvbjOFhf2g>

Magic Leap <http://www.magicleap.com/>

Demonstration of Magic Leap <http://www.mif.co.uk/event/the-age-of-starlight>

Transparent LCD displays <http://www.gws-tech-europe.eu/>

3D Rendering

Online rendering farm <http://renderingfox.com/>

3D Printing

Creative use of 3D printing <http://www.wimp.com/creativeprinting/>

Makerbot <http://www.makerbot.com/>

3D printing news <http://www.3ders.org/>

Smithsonian museum artifacts <http://www.cbc.ca/news/technology/smithsonian-museum-artifacts-can-now-be-3d-printed-at-home-1.2424898>

3D printing of concrete <http://www.gizmag.com/d-shape-3d-printer/21594/>

iMaterialise <http://i.materialise.com/>

3D Pen <https://www.kickstarter.com/projects/1351910088/3doodler-the-worlds-first-3d-printing-pen>

NanoScribe <http://www.gizmag.com/3d-printing-photonic-professional-gt--nanoscribe/26329/>

Houses <http://www.gizmag.com/kamermaker-3d-printed-house/26752/>

3D print of ancient Rome <http://i.materialise.com/blog/entry/12-yale-students-rebuild-ancient-rome-in-gold-for-the-venice-biennale>

Shapeways <http://www.shapeways.com/>

Full colour desktop 3D printer <http://www.gizmag.com/botobjects-color-3d-printer/27344/>

MuseoFabber <http://www.museofabber.com/>



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Mataerial 3D printer <http://www.gizmag.com/mataerial-3d-printer/27642/>
3D printing in soft plastic <http://www.gizmag.com/3d-printing-soft-plastic-shapeways/27747/>
3D customization <http://www.twikit.com/>
3D printing (Ireland) <http://www.inspire3d.ie/>
3D printing in Windows 8 <http://msdn.microsoft.com/en-us/windows/hardware/bg183398.aspx>
3D CNC <http://www.gizmag.com/handibot-portable-cnc-tool/28144/>
3D CNC <https://handibot.com/>
3D printing for broken bones <http://www.gizmag.com/cortex-concept-3d-printed-casts/28123/>
3D printing of metal <http://www.gizmag.com/tiny-3d-structures-created-from-liquid-metal/28217/>
Health effect of 3D printing <http://www.zdnet.be/nieuws/150732/3d-printers-zijn-smeerlapjes/>
Health effect of 3D printing <http://phys.org/news/2013-07-3d-printers-shown-emit-potentially.html>
3D Online FDM and multi material printing <http://www.printanovo.com/>
Art Institute of Chicago <http://3dprintingindustry.com/2014/07/06/art-institute-chicago-embraces-3d-printing-scanning/>
Photon Elephant <http://3dprintingindustry.com/2015/01/16/photon-elephant-3d-printer-designs/>
DLP desktop 3D printer <http://www.solidator.com/>

Tangible interfaces

Tangible Media MIT <http://tangible.media.mit.edu/>

Touchscreen interfaces

Aquae Patavinae https://www.youtube.com/watch?v=LUIy9_w6OGs
Archaeological Museum of Cerveteri <http://archeomatica.it/ict-beni-culturali/teche-tecnologiche-per-il-museo-archeologico-di-cerveteri>
Kiosk Pro for iPad <https://www.youtube.com/watch?v=KdM3EMsQKeA>
Kiosk Pro for iPad and iPhone <http://www.kioskproapp.com/>
Interactive glass cases in Cerveteri <http://www.archeomatica.it/eventi/il-museo-archeologico-di-cerveteri-si-arricchisce-di- vetrine-interattive>
Interactive glass cases in Cerveteri <http://www.archeomatica.it/ict-beni-culturali/teche-tecnologiche-per-il-museo-archeologico-di-cerveteri>
Ubi projected touch screen <http://www.gizmag.com/microsoft-ubi-projection-touchscreen/28757/>

Mobile apps

Google platform to build museum apps <http://venturebeat.com/2014/12/10/google-cultural-institute-opens-up-as-a-platform-for-museums-to-build-their-own-mobile-apps/>



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Multilingual

Skype Translator <http://www.zdnet.be/nieuws/159850/microsoft-toont-testversie-skype-translator/>

PDF

PDF Shaper toolkit <http://www.zdnet.be/download/159945/gereedschap-voor-je-pdf-documenten/>

Sumatra PDF reader for Windows <http://www.sumatrapdfreader.org/>

Virtual Reality outside Digital Heritage

Virtual LandRover <http://www.gizmag.com/discovery-sport-virtual-tour-ar/35194/>

Drones/UAVs

X PlusOne <http://www.gizmag.com/x-plusone-hovering-fixed-wing-drone/35242/>

Lehmann <http://vimeo.com/36749069>

Lehmann Versailles <http://vimeo.com/23521765>

Lehmann LA100 <http://vimeo.com/53551370>

Skyvision <http://www.skyvision-drones.com/>

Orbit <https://www.youtube.com/watch?v=cR8P6lt-GKU>

Visualkopter <http://www.visualkopter.be/>

UAVs for Archaeological Mapping <http://blog.lidarnews.com/uavs-set-to-revolutionize-archaeological-mapping>

Phantom and Inspire drones <http://www.dji.com/>

Aquatic drone <http://www.gizmag.com/ziphius-aquatic-drone/28097/>

Oculus Rift for UAVs <http://www.gizmag.com/oculus-rift-fpv-uav/28493/>

A stable kite for aerial photography <http://www.gizmag.com/allsoopp-action-cam-skyspot-helikite/35846/>

Satellite Imagery

Archaeology by infrared imagery <http://www.bbc.com/news/world-13522957>

Satellite imagery for archaeology <http://www.bbc.com/future/story/20120717-hunting-lost-cities-from-space>



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2D Digitisation

Google Art project <https://www.youtube.com/watch?v=njfa3U3Y1cE>
Mad Pixel <http://www.madpixel.es/>

3D Digitisation & Processing

Agora3D project <http://agora3d.africamuseum.be/>
Creaform portable laser scanner <http://www.creaform3d.com/>
Underwater 3D digitisation <http://dimeye.com/>
Reflectance Imaging http://www.illuminare.be/rich_project
Capturing RTI http://culturalheritageimaging.org/What_We_Offer/Downloads/Capture/index.html
Polynomial Texture Mapping (RTI) <http://www.hpl.hp.com/research/ptm/>
LIDAR Stonehenge <http://vimeo.com/387367>
Kinect <https://www.youtube.com/watch?v=ZZrmPLas66E>
Instant 3D digitisation by images <http://www.dpreview.com/articles/3402085606/full-360-degree-camera-rig-takes-your-3d-portrait-with-60-dslrs>
Infinite Realities <http://ir-ltd.net/>
Captured Dimensions <http://captureddimensions.com/>
Rock Art <http://insitu.revues.org/6814>
Rock Art <http://insitu.revues.org/6745>
Rock Art <http://insitu.revues.org/6672>
Laser scanning rock art <http://insitu.revues.org/6413>
Smart Replicas <http://smartreplicas.blogspot.nl/>
3D digitisation support tool <http://www.ipet.gr/3d-icons/tools/scanning.php>
Long distance laser scanning <http://www.bbc.com/news/technology-22079704>
3D print of a skeleton <http://www.gizmag.com/3d-printed-rat-skeleton/27016/>
Ten24 digitisation services <http://www.ten24.info/>
LIDAR for archaeological sites <http://www.bbc.com/future/story/20120827-the-laser-archaeologists>
Non-destructive analysis of archaeological finds <http://www.bbc.co.uk/news/science-environment-12820302>
GO!Scan (Creaform) for large objects <http://www.gizmag.com/creaform-goscan-hand-held-3d-scanner/27241/>
Unwrap a mummy <http://www.bbc.com/news/science-environment-23045904>
LIDAR <http://www.esri.com/esri-news/arcuser/summer-2013/5-ways-to-use-lidar-more-efficiently>
Light Fields <http://www.disneyresearch.com/project/lightfields/>
Kinect 3D digitising app <http://www.gizmag.com/volumental-3d-scanning-app/28566/>
Scanify (handheld 3D scanner) <http://www.fuel-3d.com/>



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MeshLab tutorials https://www.youtube.com/channel/UC70CKZQPj_ZAJ0Osrn6TyTg
Designing Reality (image based) <http://www.designingreality.co/>
Abbey of Epau (France) <http://epau.sarthe.com/visite-abbaye-3d-projet.aspx>
Recap (AutoDesk) <http://www.autodesk.com/products/recap/overview>
123D Catch (AutoDesk) <http://www.123dapp.com/catch>
123D Apps (AutoDesk) <http://www.123dapp.com/>
itSeez3D <http://itseez3d.com/>
Morphometrics <https://crhrarchaeology.wordpress.com/2015/01/16/3d-morphometrics-of-caddo-nagpra-vessels-from-the-washington-square-mound-site/>
3D Reshaper (3D scanning software) <http://www.3dreshaper.com/>
ARCH 3D <http://www.arch3d.org/> <https://www.facebook.com/archeritage3D>
Cultural Heritage Digitisation by Fraunhofer IGD <http://www.cultlab3d.eu/>
Portable dome <https://portablelightdome.wordpress.com/>

3D modelling

From sculpting to wooden model <http://www.zbrushcentral.com/showthread.php?173664-From-a-ZBrush-model-to-a-wood-sculpture>
Plants and trees <http://xfrog.com/>
Plants and trees <http://www.speedtree.com/>
Plant Factory <http://www.plantfactory-tech.com/>
Plant Factory <https://www.youtube.com/watch?v=l8cljMQJHeQ>
Landscape simulation <http://www.e-onsoftware.com/products/vue/>
3D Landscape Reconstruction <https://dries4vmust.wordpress.com/>
Ten24 modelling services <http://www.ten24.info/>
3D for archaeology, monuments and landscapes <http://blog3d.es/>
3D Builder (Windows 8.1) <http://apps.microsoft.com/windows/en-us/app/3d-builder/75f3f766-13b3-45e9-a62f-29590d5781f2>
3D Sculpting <https://labs.sketchfab.com/sculptfab/>
Cloud-based 3D modeling, animation and rendering <https://clara.io/>

3D tomography

Roman coin hoard <http://archeologieonline.nl/nieuws/r%C3%B6ntgenstraling-ingezet-bij-bestudering-romeinse-munten>

Motion capture

Low cost mocap <https://www.youtube.com/watch?v=mAKveiQ--ys>



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Markerless mocap & facial animation (Kinect) <https://www.youtube.com/watch?feature=endscreen&NR=1&v=9dsSjH1qU1E>
3D motion tracking and mocap <https://www.xsens.com/>
3D Motion tracking <http://www.intersense.com/>
Motion capture <http://www.hypernovadesign.com/design-blog/the-study-of-animation-motion-capture-technology>
Heddoko <http://www.gizmag.com/heddoko-sportswear-motion-capture/35826/>

Robots and virtual humans

Disney <http://www.gizmag.com/disney-catching-robot/25145/>
Talking head with emotions <http://www.gizmag.com/zoe-talking-head-avatar/26716/>
Virtual humans <http://www.bbc.com/news/technology-21887750>
Ten24 <http://www.ten24.info/>
Robot factory <http://www.bbc.com/news/magazine-22556987>
Virtual Presenter for museums http://archive.aweber.com/ispr-2/N0aVY/h/European_first_as_Louth_County.htm

Wearables

Vuzix AR glasses <http://www.vuzix.com/>
Telepathy One <http://www.gizmag.com/telepathy-one-wearable-computer/27306/>
Telepathy One <http://tele-pathology.org/>
XOEye <http://www.xoeye.com/>
XOEye review <http://www.gizmag.com/pairasight-pov-video-glasses/28086/>
Google Glass basics <https://www.youtube.com/watch?v=4EvNxWhskf8>
Google Glass code available <http://www.zdnet.be/nieuws/149001/kernelcode-voor-google-glass-is-nu-beschikbaar/>
Google Glass review <http://www.smartplanet.com/blog/bulletin/google-glass-gains-critics-even-before-it-goes-on-sale/>
Google Glass impressions <http://www.bbc.com/news/technology-22538854>
Google Glass specs <http://techcrunch.com/2013/04/15/google-releases-full-glass-specs-full-day-battery-life-5mp-camera-720p-video-16gb-flash-memory-bone-conduction-transducer/>
Google Glass Companion App <http://techcrunch.com/2013/04/15/googles-glass-companion-app-for-android-and-web-based-setup-wizard-are-now-live/>
Google Glass impressions <http://techcrunch.com/2013/04/17/a-day-with-glass-first-impressions-of-the-early-days-of-googles-latest-moonshot/>
Google Glass concept <https://www.youtube.com/watch?v=9c6W4CCU9M4>



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Google Glass apps <http://www.theverge.com/2013/5/20/4339446/google-glass-apps-everything-you-can-do-right-now>

Local News on Google Glass <http://qz.com/110493/google-is-testing-a-local-news-product-for-google-now/>

Google Glass bone conduction audio <http://www.gizmag.com/google-glass-bone-conduction/25965/>

Google Glass in De Young museum <http://blog.guidigo.com/blog/guidigo-new-storytelling-platform-enhances-keith-haring-exhibition-at-the-de-young-museum-through-google-glass/>

Google Glass halted but not dead <http://www.bbc.com/news/technology-30831128>

3D reconstruction

Peer reviewed 3D <http://www.journals.elsevier.com/digital-applications-in-archaeology-and-cultural-heritage/>

RadioPast project <http://www2.radiopast.eu/>

Rome <http://www.unicaen.fr/cireve/rome/index.php>

Villa di Livia 2009 https://www.youtube.com/watch?v=Etctttg_pqM

Apa (making of) <https://www.youtube.com/watch?v=iwYW2OXA0g>

Alexander the Great <http://vimeo.com/18707811>

Alexandria (Ancient Vine) http://ancientvine.com/alexandria_egypt.html

Pharos of Alexandria <http://www.turbosquid.com/3d-models/wonders-lighthouse-alexandria-pharos-3d-model/333588>

Roman Nijmegen (Netherlands) <http://gemaaktinamersfoort.nl/creatieve-industrie/romeins-verleden-van-nijmegen/>

Gladiator school Carnuntum <https://www.youtube.com/watch?v=aJFH3TCVzTk>

Villa Domitia <https://www.youtube.com/watch?v=6dZdsiyAfoY>

Forum Romanum <https://www.youtube.com/watch?v=q-yUaLqsbuw>

Colloseum <https://www.youtube.com/watch?v=8sLy5VCMuKM>

Ancient Rome <https://www.youtube.com/watch?v=UzAhpdo4RSI>

Châteaux forts de Titans <http://vimeo.com/51016348>

Gaule Romaine <http://vimeo.com/16725403>

Gaule Romaine DVD <http://vimeo.com/16691178>

Satricum <https://www.youtube.com/watch?v=hgHHwVPJc28>

Satricum second temple <https://www.youtube.com/watch?v=ifaC5LHitX8>

Luni Temple (CNR-ISTI) <https://www.youtube.com/watch?v=CIsO0c1OxJY>

La tomba del principe sabino <http://www.principisabini.it/>

Roman rural villa (Turri, Padova) https://www.youtube.com/watch?v=qqTG_FdR8Xw

Ancient Egypt (Altair4) <https://www.youtube.com/watch?v=nXN0Z7YUnVA>

Viaje al tiempo de los Iberos <https://www.youtube.com/watch?v=1b1FC8mc4Ug>



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Maya 3D <http://www.maya-3d.com/>
Versailles 3D <http://www.versailles3d.com/en/>
Versailles 3D <https://www.youtube.com/watch?v=X235vpOToVU>
Making of Versailles 3D by Google <https://www.youtube.com/watch?v=IMkNlbWhxmo>
Chaos to Perfection <https://www.youtube.com/watch?v=vACWrpaazVl>
3D reconstruction in research [http://www.digitale-kunstgeschichte.de/wiki/Digitale_Architekturmodelle_und_ihre_Rolle_in_der_Residenzenforschung_\(Forschungsschwerpunkt\)](http://www.digitale-kunstgeschichte.de/wiki/Digitale_Architekturmodelle_und_ihre_Rolle_in_der_Residenzenforschung_(Forschungsschwerpunkt))
Imperial Palace Aachen <http://www.architectura-virtualis.de/rekonstruktion/kaiserpfalzaachen.php?lang=en>
Straubing <http://www.architectura-virtualis.de/exponate/gruendungsstaedte.php?lang=en>
Roman key <https://www.youtube.com/watch?v=sa7A3SWLH8I>
Catalhöyük <https://www.youtube.com/watch?v=pAV8z6NesOA>
Northwest Palace, Nimrud, Assyria <https://www.youtube.com/watch?v=5VCldg1TdHc>
Roman villas in France <http://www.villa.culture.fr/>
Grands sites archéologiques <http://www.culture.fr/Multimedias/Grands-sites-archeologiques/>
Bagacum (Bavay) <https://www.youtube.com/watch?v=pnCzxUVYBHg>
Agora of Athens <http://architecturalmoleskine.blogspot.be/2011/11/agora-of-athens-urbanism.html>
Acropolis of Athens <https://www.youtube.com/watch?v=hR68fz7QoBo>
Agrigento <http://www.comhera.org/agrigento.php>
RadioPast <https://www.youtube.com/watch?v=sjgrGSqml00>
Giza (3D Via player outdated) <http://giza3d.3ds.com/>
Giza <https://www.youtube.com/watch?v=r46ADKia6l0>
Clonmacnoise <https://www.youtube.com/watch?v=aCRiB0fvH2A>
Utrecht medieval Dom tower (4D) <http://www.bouwdomtoren.nl/>
Utrecht medieval city centre (4D) <http://www.bumos.nl/3dc/>
Dinosaurs 3D <http://www.bbcearth.com/walking-with-dinosaurs>
Konstanz, Germany around 1400 http://www.planet-wissen.de/politik_geschichte/mittelalter/leben_im_mittelalter/video_kostanzer_konzil.jsp
Konstanz, Germany around 1400 http://www.planet-wissen.de/politik_geschichte/mittelalter/leben_im_mittelalter/video_mittelalter_stadtleben.jsp
Château Gaillard (Riches Heures) <http://vimeo.com/53267384>
Châteaux forts de Titans (Riches Heures) <http://vimeo.com/51016348>
Medieval sites <http://www.dtpfusion.de/sort/archaeologie/>
Sulzbach, Germany <https://www.youtube.com/watch?v=FHnukhL5lkk>
London 17th century <http://puddinglanedmuga.blogspot.co.uk/>
London 17th century (video) <https://www.youtube.com/watch?v=SPY-hr-8-M0>
Different sites in the Netherlands <http://vimeo.com/user5517601/videos>



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Excavations Van Giffen (1933) https://www.youtube.com/watch?v=mll0T_NY8sA
Mount Vernon (USA) <http://www.video.esri.com/watch/4141/3d-mount-vernon>

3D digital restoration

The Constantine Colossus http://www.arctron.de/en/gallery/galerie_archiv/2006/emperor_constantine/
Rock Art <http://insitu.revues.org/6774>
Chinese caves <http://www.bbc.com/news/magazine-20802947>
The Digital Sculpture Project <http://www.digitalsculpture.org/>
Renaissance murals <https://www.youtube.com/watch?v=0WbzDSArOMA>
Tutmosis III head <https://www.youtube.com/watch?v=HLYsTiwbPfm>

Simulation

Massive (crowd simulation) <http://www.massivesoftware.com/>
Landscape Avatar <http://oliw.free.fr/cg/Avatar.html>
ORBIS – Travelling the Roman Empire <http://orbis.stanford.edu/>
ORBIS <http://arstechnica.com/business/2012/05/how-across-the-roman-empire-in-real-time-with-orbis/>
Iterinix <https://www.youtube.com/watch?v=yzGFgR263JY>
Iterinix <http://phoenixbf.wikidot.com/iterinix>
Structural analysis <https://www.youtube.com/watch?v=IOiT8ueaOg>

Serious games

Unity3D <http://unity3d.com/>
Unity3D terrain creation <http://vimeo.com/album/156452>
Unity3D terrain engine <http://docs.unity3d.com/Manual/script-Terrain.html>
Unity3D terrain tools <http://www.unityterraintools.com/index.php>
Unity3D Terrain Composer <http://www.terraincomposer.com/>
Serious Games Society <http://seriousgamessociety.org/>
Play the Past <http://www.playthepast.org/>
GALA <http://www.galano.eu/index.php/sigs/humanities-a-heritage-m>
Groma 2.0 <http://www.groma20.com/>



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Kiosks and touch screens

Kiosks <http://zivelo.com/>

Linux Ubuntu for touchscreens <http://www.zdnet.be/nieuws/146558/ubuntu-komt-naar-smartphones-en-tablets/>

DST <https://www.youtube.com/watch?v=gi0YUJfHz84>

Digital FX

Avatar <http://www.media-division.com/software-used-making-of-avatar/>

VFX guide <http://www.fxguide.com/>

Avatar <https://www.youtube.com/watch?v=onLajIT5k6c>

Avatar <https://www.youtube.com/watch?v=L6JXUoWeZ7Q>

Agora <http://vimeo.com/50699015>

Agora <https://www.youtube.com/watch?v=RbuEhwseIE0>

Agora <http://theconceptartblog.com/2010/06/25/artes-da-mega-producao-europeia-agora/>

Weta Digital <http://www.wetafx.co.nz/>

Emerging Technologies

Siggraph Asia (Siggraph Asia 2012 https://www.youtube.com/watch?v=Y_HVkc-RasU)

Game consoles

GameStick <http://www.gizmag.com/gamestick-console/25614/>

GameStick <http://tweakers.net/nieuws/86390/android-gameconsole-ouya-krijgt-concurrentie-van-gamestick.html>

Ouya (Android) <http://www.gizmag.com/ouya-android-games-console/23266/>

Ouya (Android) <https://www.ouya.tv/>

Review Ouya and Shield <http://www.demorgen.be/technologie/getest-op-e3-android-consoles-ouya-en-shield-a1651118/>

Review Ouya <http://www.zdnet.be/review/150304/review-ouya-spelconsole-voor-een-prikkje/>

MD Creative Museum <http://michaeldionnecreativemuseum.blogspot.be/2012/08/why-new-ouya-video-game-console-will.html>

GamePop <http://www.bluestacks.com/technology.html>

GamePop <http://www.gamesindustry.biz/articles/2013-05-10-bluestacks-announces-android-powered-gamepop-console>

Gamepop <http://www.gizmag.com/bluestacks-gamepop-console/27444/>

nVidia Shield <http://shield.nvidia.com/>



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Xbox One vs. PS4 <http://www.gizmag.com/xbox-one-vs-playstation-4-specs-comparison/27897/>

Micro computers

Raspberry Pi <http://www.zdnet.be/nieuws/148635/het-raspberry-pi-effect-8-wonderlijke-creaties-met-de-minipc/>

Utilite <http://www.zdnet.be/nieuws/150538/compulab-utilite-gaat-concurrentie-aan-met-raspberry-pi/>

Parallella <http://www.parallella.org/>

News sites

Technology for archaeology <http://www.pasthorizons.tv/category/technology/>

Digital media for museums <http://museummedia.nl/>

Archeomatica <http://archeomatica.it/>

ICT in Archeomatica <http://archeomatica.it/table/notizie/ict-beni-culturali/>

Digital meets Culture <http://www.digitalmeetsculture.net/>

Art and Technology

Digital Art Week <http://www.digitalartweeks.ethz.ch/>

Integrated <http://integratedconf.org/>

Interoperability and Open Source

Revit to Unity3D <http://www.studica.com/blog/the-power-of-interoperability-bringing-revit-models-into-unity>

AutoCAD to Unity3D <http://www.studica.com/blog/unity-game-development-autodesk-cad-a-winning-combination>

Cross-platform open source app development <http://haxe.org/>

Blender 3D software <http://www.blender.org/>

Sintel, a Blender movie (2010) <https://www.youtube.com/watch?v=eRsGyueVLvQ>

Sintel <https://durian.blender.org/>

Making of Sintel <https://www.youtube.com/watch?v=IN6w6GnN-Ic>

Tears of Steel, a Blender movie (2012) <https://www.youtube.com/watch?v=41hv2tW5Lc4>

Tears of Steel <https://mango.blender.org/>



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3D models of heritage assets

Artist 3D <http://www.artist-3d.com/>

DAZ 3D <http://www.daz3d.com/>

Falling Pixel <http://www.fallingpixel.com/>

ArchaeoDesign <http://www.fallingpixel.com/3d-artists/ArchaeoDesign>

Turbosquid <http://www.turbosquid.com/>

Heritage Inventory & Management System

Arches <http://archesproject.org/>

Museums and education

Museumeducatie <http://museumeducatie.nl/>

MuseoFabber <http://www.museofabber.com/>

The teacher in the museum <http://www.theteacherinthemuseum.com/>

Online learning for museums <http://www.theteacherinthemuseum.com/museums-online-learning/>

Live team game for museums (HTML5) <http://capturethemuseum.com/>

ClipArt <http://etc.usf.edu/clipart/>

Kids and Museums <http://blog.trekaroo.com/road-school-teaching-kids-art-museums-beyond/>

Digital Preservation

APARSEN <http://www.alliancepermanentaccess.org/>

Digital Preservation Coalition <http://www.dpconline.org/>

Open Preservation Foundation <http://openpreservation.org/>

Practical Digital Preservation <https://facetpublishing.wordpress.com/2013/05/10/practical-digital-preservation/>

Practical Digital Preservation chapter 1 <http://www.facetpublishing.co.uk/downloads/file/brown-ch1.pdf>

Interactive storytelling

Interactive movie <http://www.gizmag.com/tutbulence-interactive-movietouch-screen-input/17284/>

Second screen movie <http://www.gizmag.com/app-smartphone-movie/26718/>



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Interactive storytelling in games <http://www.theverge.com/2013/5/7/4307734/framed-interactive-storytelling-in-games>

Interactive storytelling in games <http://framed-game.com/>

Interaction Design

Interactive prototyping <http://2014.europe.wordcamp.org/2014/11/25/video-karin-christen-a-modern-take-on-interactive-prototyping-wceu/>

Digital repatriation

Monteleone <http://illicit-cultural-property.blogspot.be/2007/04/monteleone-di-spoleto-wants-its-chariot.html>

Antropology

Making of Europe unlocked by DNA <http://www.bbc.com/news/science-environment-22252099>

GIS and Mapping

Google Maps <http://www.zdnet.be/nieuws/149484/op-verkenning-door-de-nieuwe-google-maps/>
Italian Heritage by Google <http://www.palabraclave.fahce.unlp.edu.ar/article/view/PCv2n2a05/2346>

Tourism

Best travel and tour apps <http://besttravelandtourapps.com/>

Travel with Zahi Hawass <http://archaeologicalpaths.com/>

QR codes for monuments <http://visiteasy.fr/>

Sacred Spaces <http://www.icomos-uk.org/icomos-resources/>

Izi Travel platform <http://izi.travel/>

Metadata

Photo metadata <http://photometadata.blogspot.be/2013/05/six-ways-to-keep-your-digital-images-from-becoming-orphan-works.html>

GeoNames <http://www.geonames.org/>



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2D image processing and creation

Gimp <http://www.gimp.org/>

GimpShop <http://www.gimpshop.com/>

Alternatives for Photoshop <http://www.zdnet.be/nieuws/149520/er-is-leven-na-photoshop-zeven-volwassen-alternatieven/>

Websites

Websites that build themselves <http://thegrid.io/>

Video

Ducttake <http://www.disneyresearch.com/project/ducttake/>

Ducttake <http://nofilmschool.com/2013/05/ducttake-software-compositing-multiple-takes>

Steadycam <http://www.gizmag.com/ghost-video-camera-stabilizer/28243/>

Steadycam <http://www.gizmag.com/besteady-one-camera-stabilizer/28570/>

Jib arm <http://www.gizmag.com/hibjib-tripod-jib-arm/28670/>

Real time Earth images in ultra HD <https://www.urthecast.com/>

HDR

HDR software review <http://captainkimo.com/hdr-software-review-comparison/>

HDR software review <http://www.digitalefotografietips.nl/apparatuur/hdr-software-vergeleken/>

Luminance HDR <http://qtpfsgui.sourceforge.net/>

Free HDR software <http://www.techsupportalert.com/best-free-high-dynamic-range-hdr-software.htm>

Werken met HDR <http://www.shoot.be/art/150108/zie-meer-met-hdr/>

HDR video <http://gohdr.com/>

eBooks

Adobe Digital Editions http://www.adobe.com/be_nl/products/digital-editions.html

Video Conferencing and Streaming

LifeSize <http://www.lifesize.com/en/products/video-conferencing-infrastructure>

Live Internet broadcasting (Netherlands) <http://www.citytv.nl/>



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Live Streaming <http://new.livestream.com/>
Chromecast (Google media streaming) <http://www.google.com/chrome/devices/chromecast/>
Chromecast vs Apple TV <http://www.gizmag.com/apple-tv-vs-chromecast/28510/>

Re-enactment

Costumes and re-enactment <http://www.gelderseroos.nl/>

Digital Art

Historical illustrations (J. Humphries) <http://j-humphries.deviantart.com/art/Motte-and-Bailey-Castle-298320500>

Wordpress & Blogspot

WordCamp 2013 <http://2013.europe.wordcamp.org/>
WordCamp 2014 <http://2014.europe.wordcamp.org/>
3D plugins for WordPress <https://wordpress.org/plugins/tags/3d>
WordPress.com vs. WordPress.org <http://en.support.wordpress.com/com-vs-org/>
WordPress Beginner <http://www.wpbeginner.com/>

Serious Games

Educational Games research <http://edugamesresearch.com/blog/>
Michael Dionne's Creative Museum <http://michaeldionnecreativemuseum.blogspot.be/>
Idees 3Com <http://www.idees-3com.com/>
Serious Games Market <http://seriousgamesmarket.blogspot.be/>



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Institutions /SMEs

Digital Heritage Companies

Engage! <http://www.engagetv.com/>
I-maginary <http://www.i-maginary.it/en/>
AV Trade <http://www.avtrade.nl/>
Cultural Heritage Imaging <http://culturalheritageimaging.org/>
ArchiMuse <http://www.archimuse.com/>
Connecto <http://www.connecto.com/>
CrossDesign Group <http://www.crossdesigngrouppltd.com/>
Archimedix (3D reconstruction) <http://www.archimedix.com/>
Architectura Virtualis (3D reconstruction) <http://www.architectura-virtualis.de/>
Dreamstage (including Kinect projects) <http://dreamstage.se/>
MuseoTechniki <http://museotechniki.com/>
The Mill <http://www.themill.com/>
No Idea <http://www.noidealab.com/>
Gallery Systems <http://www.gallerysystems.com/>
NetX (Digital Asset Management) <http://netx.net/>
PLB (museum design) <http://www.plbltd.com/index.php>
Initiation (VR/AR) <http://www.initiation.co.uk/>
Coolux (projection technology) <http://www.coolux.de/>
Auto-stereoscopic 3D screens <http://alioscopy.com/en/>
Elumenati (immersive projection) <http://www.elumenati.com/>
Igloovision (immersive dome projection) <http://www.igloovision.com/>
FBK 3DOM <http://3dom.fbk.eu/en/>
Portmantoo <http://portmantoo.nl/>
Architectural Heritage preservation <http://www.archigingertect.com/>
ReliefFactory (3D autostereoscopy for museums) <https://www.youtube.com/user/ReliefFactory>
Grant Cox Media (3D reconstruction) <https://grantcoxmedia.wordpress.com/>
Artas Media (3D reconstruction) <http://artasmedia.com/>
iDA Production <http://www.ida-prod.com/>
ay-pe <http://www.ay-pe.com/>
Scalable <http://www.scalabledisplay.com/>
Serious Games International Ltd. <http://www.seriousgamesinternational.com/>
Iconema <http://www.iconema.it/>
ArcheoTransfert <http://archeotransfert.cnrs.fr/>



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Art Conservation <http://www.artconservation.nl/>
Infofilm <http://www.infofilm.nl/>
NextNow <http://nextnowagency.com/>
Mindscape3D (virtual reconstruction) <http://www.mindscape3d.com/>
Second Canvas (museum apps) <http://www.secondcanvas.net/>
AB-C Media (online applications for heritage) <http://www.ab-c.nl/>
RealSim <http://www.realsim.ie/>
Guidigo <https://www.guidigo.com/>
FrameFusion <http://www.dtpfusion.de/>
Schauhütte <http://www.schauhuetten.de/>
Illustrato <http://www.illustrato.de/>
SteadPro (3D digitisation and apps) <http://www.steadpro.com/>
Geheugen Collectief <http://www.geheugencollectief.be/>
Xyz Imaging <http://www.xyz-imaging.com/>
Studio Flashback (3D reconstruction) <http://www.joukenijman.nl/>
Leuning & Nijman <http://www.leuningennijman.nl/>
Karvansera heritage marketing <https://karvansera.wordpress.com/>
Memoire de Patrimoine <http://www.memoiredepatrimoine.com/>

Competence Centres for VR and Digital Heritage

Fonds21 (Netherlands) <http://www.fonds21.nl/>
Arts & Humanities Research Council <http://www.ahrc.ac.uk/>
JPI on Cultural Heritage <http://www.jpi-culturalheritage.eu/>
Innovatiecentrum Oost-Vlaanderen <http://www.innovatiecentrum.be/contact/gent.html>
Creative Industries <http://www.flandersdc.be/nl/cici>
Interreg Central Europe <http://www.central2020.eu/>

Research groups

Center for the Future of Museums <http://futureofmuseums.blogspot.be/>
Illuminare (medieval art) <http://www.illuminare.be/>
Georgia Tech AR games <http://ael.gatech.edu/lab/research/games/>
MIT Education Arcade <http://education.mit.edu/>
ALIVE (Applied Laboratory for Interactive Visualisation and Embodiment, Hong Kong) <http://www.cityu.edu.hk/scm/alive/>
CHIMERA <http://www.alc.manchester.ac.uk/chimera/>
Groma 2.0 <http://www.groma20.com/>
Interpret Europe <http://www.interpret-europe.net/>
LaBRI <http://www.labri.fr/>



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Digi.ba <http://www.digi.ba/>

Interaction Design Centre (Univ. of Limerick) <http://www.idc.ul.ie/>

Centre for Digital Heritage (York) <http://www.york.ac.uk/digital-heritage/about/>

Cultlab 3D (Fraunhofer IGD)

<https://www.igd.fraunhofer.de/en/Institut/Abteilungen/Digitalisierung-von-Kulturerbe>

CNR ITABC Virtual Heritage Lab, Italy

CNR ISTI Visual Computing Lab, Italy

International associations

European Association for International Education <http://www.eaie.org/>

International Association of Amusement parks and Attractions (IAAPA) <http://www.iaapa.org/>

European Museum Academy <http://www.europeanmuseumacademy.eu/>

Network of European Museum Organisations <http://www.ne-mo.org/>

European Institute for Underwater Archaeology <http://www.ieasm.org/>



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Other available resources

Heritage

This list gives an overview of interesting heritage resources, as background information for projects or because they use 3D integrated in the project

Heritage in rural areas <http://www.histcape.eu/>

Archaeology Online <http://archeologieonline.nl/>

Cleopatra's palace <https://www.youtube.com/watch?v=IRp-Yxxx78g>

Past Horizons <http://www.pasthorizonspr.com/>

Memory of the World (UNESCO) <http://www.unesco.org/new/en/communication-and-information/flagship-project-activities/memory-of-the-world/homepage/>

Insight – documenting and visualizing heritage <http://www.insightdigital.org/>

Seven Wonders of the World <http://www.smithsonianmag.com/travel/journey-to-the-seven-wonders-2757692/>

Seven Wonders of the World – Pharos <http://www.scientias.nl/de-zeven-wereldwonderen-2-pharos-van-alexandrie/>

Seven Wonders of the World – Halicarnassus mausoleum <http://www.scientias.nl/de-zeven-wereldwonderen-6-het-mausoleum/>

Seven Wonders of the World – Pyramid Giza <http://www.scientias.nl/de-zeven-wereldwonderen-7-de-piramide/>

Megiddo (Israel) <https://sites.google.com/site/megiddoexpedition/>

Fortalesa iberica dels Vilars (Catalunia) <http://www.vilars.cat/>

Fortalesa dels Vilars <https://www.youtube.com/watch?v=IL1ULEdwd8c>

Reliquars <http://www.orthodoxartsjournal.org/carving-a-reliquary/>

Guédelon <http://www.castlemaniac.com/chateau-medieval/guedelon.php>

Guédelon <http://www.guedelon.fr/>

Guédelon <http://www.benevoleguedelon.com/>

Campus Galli (building a Carolingian abbey) <http://www.campus-galli.de/>

Campus Galli <https://www.youtube.com/watch?v=Dr03NcvOYZk>

Paramentica (ecclesiastical textile) <https://www.flickr.com/photos/paramentica/>

The Oplontis project <http://oplontisproject.org/>

Herculaneum and food <http://www.bbc.com/news/world-europe-21996125>

Preparation of the Augustus Prima Porta for transport http://mv.vatican.va/3_EN/pages/z-Info/Opere/MV_Info_Augusto_Prima_Porta.html



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Roman Necropolis at the Vatican http://mv.vatican.va/3_EN/pages/z-Info/Photogallery/necropoli/index.html

Roman London <http://www.bbc.com/news/uk-england-london-22086375>

Ekainberri cave art <https://www.youtube.com/watch?v=URxE8fZ-8Nw>

Froissart <http://www.archivesdefrance.culture.gouv.fr/action-culturelle/celebrations-nationales/recueil-2004/litterature-et-sciences-humaines/jean-froissart>

Ename site <http://www.pam-ov.be/ename/erfgoed/site>

Mundaneum <http://digital-archaeology.org/the-idea-of-the-internet-was-born-in-belgium/>

El mosaico de los Amores <https://www.youtube.com/watch?v=qJGleDMtueo>

Proyecto Forvm MMX https://www.youtube.com/watch?v=r_vcei0vD8c

Origins of Minoan culture <http://www.bbc.com/news/science-environment-22527821>

Cerveteri <http://www.futouring.it/web/filas/lotto-cerveteri>

Altamira cave <http://www.bbc.co.uk/arts/0/21387738>

Mottes http://www.burg-linau.de/burg_turmhuegel.html

Mary Rose ship <http://www.bbc.com/news/uk-england-hampshire-22639505>

Mary Rose museum <http://www.maryrose.org/>

Alexander the Great exhibition APM https://www.youtube.com/watch?v=AyNHnl-_WZg

Oldest wine-making facility <http://www.bbc.co.uk/news/world-europe-12158341>

French wine has Italian origin <http://www.bbc.com/news/science-environment-22758119>

Medieval fashion catalogue <http://www.bbc.com/news/magazine-22766029>

Antikythera mechanism <https://www.youtube.com/watch?v=qU7MIQtnWjU>

Antikythera mechanism <https://www.youtube.com/watch?v=RLPVCJjTNgk>

Vikings <http://sciencenordic.com/vikings-held-political-summits-across-europe>

Viking navigation <http://sciencenordic.com/how-vikings-navigated-world>

Vikings <http://sciencenordic.com/what-vikings-really-looked>

Silasthorp <http://sciencenordic.com/legendary-viking-town-unearthed>

Locks throughout the ages <http://dailymedieval.blogspot.be/2012/09/locks-through-ages.html>

Restoration of murals <http://www.artplus.be/>

Recreated Roman town house (UK) <http://www.english-heritage.org.uk/daysout/properties/wroxeter-roman-city/wroxeter-roman-town-house/>

Forum Antique de Bavay <http://forumantique.lenord.fr/>

Via Romana Bavay-Velzeke <http://www.viabavayvelzeke.com/>

History of Furniture <http://www.gutenberg.org/files/12254/12254-h/12254-h.htm>

Vinkt 1940 <http://www.vinkt.be/>

Middeleeuws Nederlands (app) <http://www.scientias.nl/nieuwe-app-brengt-middeleeuws-nederlands-tot-leven/94631>

Vogala (Middeleeuws Nederlands app) <https://itunes.apple.com/be/app/vogala/id788511078>

Historical videos (UK) <http://timelines.tv/>

Cistercians in UK <http://cistercians.shef.ac.uk/index.php>



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Medieval scriptoria in Flanders_

http://www.ethesis.net/monnikenwerk/monnikenwerk_deel_1.htm

13th century life <http://www.bbc.co.uk/programmes/b04sv5nc/clips>

medieval castles (UK) <http://www.bbc.co.uk/programmes/b04t9h6l/clips>

Ename crosier <http://historiek.net/kromstaf-uit-de-elfde-eeuw-op-topstukkenlijst/23005/>

Historical building techniques <http://chantiers.hypotheses.org/>

A History of the World in 100 objects_

http://www.britishmuseum.org/explore/a_history_of_the_world.aspx

The Secret Lives of Paintings_

http://www.ted.com/talks/maurizio_seracini_the_secret_lives_of_paintings

Physical reconstruction of historical buildings <http://www.archeo-serwis.de/portfolio.html>

Geschichtspark Bärnau-Tachov <http://www.geschichtspark.de/>

Digital Libraries & Repositories

In this list, large collections of digital assets with associated context information are available, including repositories of 3D assets.

Jerusalem Virtual Library <http://www.lhham.com.sg/>

Carnuntum 3D virtual library <https://www.carnuntum-db.at/>

Imaging Papyri <http://163.1.169.40/cgi-bin/library>

Maya Skies <http://www.mayaskies.net/>

Great buildings <http://www.greatbuildings.com/>

Perseus <http://www.perseus.tufts.edu/>

Imperium Romanum <http://www.romanoimpero.com/>

Royal Museum for Art and History of Belgium <http://www.carmentis.be/>

Musical Instrument Museum online <http://www.mimo-db.eu/>

Belgica <http://belgica.kbr.be/>

Medieval Architecture (England) <http://www.medievalarchitecture.net/>

Saudi Aramco World Digital Archive <http://photoarchive.saudiaramcoworld.com/>

Kunsthistorische Museum Wien <http://bilddatenbank.khm.at/>

British Library Virtual Books <http://www.bl.uk/onlinegallery/virtualbooks/index.html>

Digital Library of Trinity College London <http://digitalcollections.tcd.ie/home/>

Digital Library of Spain_

<http://www.bne.es/en/Catalogos/BibliotecaDigitalHispanica/Inicio/index.html>

Van Deventer maps (part 2) <http://bdh-rd.bne.es/viewer.vm?id=0000043514>

Van Deventer maps (part 3) <http://bdh-rd.bne.es/viewer.vm?id=0000015403>

Manuscript writing and making <http://bjws.blogspot.be/2014/02/illuminated-manuscripts-scribes.html>

Froissart Chronicles <http://images.kbr.be/multi/I188Viewer/imageViewer.html>



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Froissart <http://www.medievalist.globalfolio.net/eng/f/index.php>
Illuminated manuscripts at British Library_
<http://www.bl.uk/catalogues/illuminatedmanuscripts/welcome.htm>
Digitised manuscripts at British Library <http://www.bl.uk/manuscripts/>
Viking Sources in translation_
<https://classesv2.yale.edu/access/content/user/haw6/Vikings/index.html>
Digital Library of Dutch Literature and Culture <http://www.dbnl.org/>
Xiangtangshan Caves project <http://xts.uchicago.edu/>
Digital Dead Sea Scrolls <http://dss.collections.imj.org.il/>
Collection of the National Museum of the Netherlands <https://www.rijksmuseum.nl/en/rijksstudio>
Literature of the Netherlands <http://www.literatuurgeschiedenis.nl/>
French monumental heritage <http://e-monumen.net/>
Royal Manuscripts (8th – 16th century) <http://www.europeanaregia.eu/>
Art moderne au Centre Pompidou <https://www.centrepompidou.fr/>
Google Cultural Institute <https://www.google.com/culturalinstitute/>
Pieter Bruegel The Elder <http://www.pieter-bruegel-the-elder.org/>
Analysis of the Harvesters of Bruegel <http://www.kunstbeeld.nl/nl/nieuws/15455/google-art-project-onthult-nieuwe-weetjes-over-meesterwerken.html>
Warburg Institute Iconographic Database_
http://warburg.sas.ac.uk/vpc/VPC_search/main_page.php
Medieval Illuminated Manuscripts <http://manuscripts.kb.nl/>
History and Geography of Europe and the World <http://www.euratlas.com/>
Medieval and Renaissance manuscripts (Bodleian Library Oxford)_
<http://bodley30.bodley.ox.ac.uk:8180/luna/servlet>
Flandrica (Digital library of Flanders) <http://www.flandrica.be/>
Illuminated manuscripts (France) <http://www.enluminures.culture.fr/>
Gallica (Digital library of France) <http://gallica.bnf.fr/>
Gutenberg project <http://www.gutenberg.org/>
Virtual Scriptorium St. Matthias <http://stmatthias.uni-trier.de/>
Illuminated manuscripts <http://www.pinterest.com/nenarok/illuminated-manuscript-miniatur/>
Architecture <http://www.archilovers.com/>
3D ArcheoLab <http://www.3d-archeolab.it/3d-virtual-museum/>
Gutenberg bible <http://www.gutenbergdigital.de/>
University of Göttingen <http://gdz.sub.uni-goettingen.de/gdz/>
Move <http://www.museuminzicht.be/>
Yellow Milkmaid syndrome <http://pro.europeana.eu/pro-blog/-/blogs/the-yellow-milkmaid-syndrome-paintings-with-identity-problems>
Projectenbank Cultuurhistorie <http://www.projectenbankcultuurhistorie.nl/>
Prentenkabinet Antwerpen <http://anet.uantwerpen.be/opac/opacuaobj>



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NESPOS (Neanderthal repository) <http://www.nespos.org/>
Louisiana Digital Library <http://louisdl.louislibraries.org/>

Virtual Museums

This list contains a selection of virtual museums that were encountered in the course of projects and work done both in side and outside V-Must. It is by no means a complete list (see Deliverable 2.3 for a more comprehensive list) but gives other perspectives to the concept and implementation of virtual museums.

Riches Heures 3D reconstructions <http://www.richesheures.com/abonne/visite-3d/index.htm>

Oldest virtual museum <http://www.lham.com.sg/>

The Virtual Egyptian Museum <http://www.virtual-egyptian-museum.org/>

Past Horizons TV <http://www.pasthorizons.tv/>

Life among ruins (UvA) <http://www.bijleveldbooks.nl/byzottarch/>

Articles on ancient history (Roman) <http://www.livius.org/>

Europeana exhibitions <http://exhibitions.europeana.eu/>

Benoit monument Antwerp <http://www.libraryconservatoryantwerp.be/benoitmonument/>

Vatican museums http://mv.vatican.va/3_EN/pages/MV_Visite.html

Google World Wonders <https://www.google.com/culturalinstitute/project/world-wonders?hl=en>

The hours of Catherine of Cleves online exhibition <http://www.themorgan.org/collection/Hours-of-Catherine-of-Cleves>

The hours of Catherine of Cleves (videos) <http://www.themorgan.org/videos/hours-catherine-cleves>

De geschiedenis van de Westhoek <http://www.westhoek.net/>

Miniatures Flamandes <http://expositions.bnf.fr/flamands/index.htm>

First website <http://www.gizmag.com/first-website-cern/27328/>

Crossroads Historical Museum <https://www.youtube.com/watch?v=1XfVHFxUdlc>

Virtual exhibitions of illuminated manuscripts at British Library
<http://www.bl.uk/catalogues/illuminatedmanuscripts/tours.asp>

The Canon of the Netherlands <http://www.entoen.nu/>

Brussels from the air through time <http://www.gis.irisnet.be/bruciel/>

Les Musées en ligne

http://www.culture.gouv.fr/documentation/joconde/fr/partenaires/AIDEMUSEES/journee_BDNC_2012/journee-pres.htm

Grand Curtius Liège <http://www.grandcurtiusliege.be/>

History of money <http://www.boccf.org/tours/Electron/index.html>

National Museum of the Netherlands <https://www.rijksmuseum.nl/en>

Roman villas in France <http://www.villa.culture.fr/>

Grands sites archéologiques <http://www.culture.fr/Multimedias/Grands-sites-archeologiques/>



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Key Concepts of Museology (multiple languages)

http://icom.museum/fileadmin/user_upload/pdf/Key_Concepts_of_Museology/Museologie_Anglais_BD.pdf

Flemish Primitives <http://vlaamseprimitieven.vlaamsekunstcollectie.be/en>

Roman Paris <http://www.paris.culture.fr/>

Collection Trakr <http://collectiontrakr.herokuapp.com/>

Museo Nazionale di Italia <http://www.museoradio3.rai.it/>

Museum Wierdenland <http://www.wierdenland.nl/>

Culturama http://www.bibalex.org/culturama/culturama_en.aspx

3D photography <http://www.88millimeters.com/expo3d/02mnir/bodymnir.htm>

The Museum of the Pure Form <http://www.pureform.org/>

Louvre Lens <http://www.louvre-lens.fr/>

Teramo <https://www.youtube.com/watch?v=pjP72HM9gH0>

3D in Flanders Fields Museum <https://www.youtube.com/watch?v=NkkDow94UfY>

History of Digital Culture <http://digital-archaeology.org/>

Role of designers within the interpretation process <http://www.explus.co.uk/page12.html>

ArcheoForum Liège <http://www.archeoforumdeliege.be/>

Echoes of the Past <http://www.nytimes.com/2012/09/14/arts/design/echoes-of-the-past-chinese-buddhist-cave-art-in-new-york.html>

York Minster <http://yorkminster.org/york-minster-revealed.html>

Tiber valley <http://vimeo.com/107151367>

Museum 2.0 http://www.mercurynews.com/portal/business/ci_27234868/museum-2-0-google-glass-apps-and-interactive

The Tech Museum of Innovation <http://my.thetech.org/>

Huis van Hilde <http://huisvanhilde.nl/>

Museums and curatorship

Here is a list of texts and webpages that discuss the different aspects of curatorship in the context of digital technologies, innovation of the museum concept or ideas and issues about the museum of today/tomorrow.

Archaeological Museum of Narona <http://www.a-m-narona.hr/en/>

American Alliance of Museums <http://www.aam-us.org/>

New director Louvre <http://www.bbc.com/news/entertainment-arts-22024357>

Economic contribution of museums <http://www.museumsassociation.org/museums-journal/news/07052013-arts-and-culture-make-up-0-4-per-cent-gdp>

Digital Curator Vocational Education <http://www.digcur-education.org/eng>

Derby Silk Mill <http://derbysilkmill.tumblr.com/>

The Participatory Museum <http://www.participatorymuseum.org/>



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The Happy Museum <http://www.happymuseumproject.org/>
Museum Minutes <https://www.cultuurmarketing.nl/museum-minutes>
De-collectioning database <http://cultureelergoed.nl/publicaties/herplaatsingsdatabase>
The museum of the future is always open <https://decorrespondent.nl/2259/Het-museum-van-de-toekomst-is-altijd-open-en-voor-iedereen/172050201972-112c47f6>
Museum of the future <http://www.theatlantic.com/technology/archive/2015/01/how-to-build-the-museum-of-the-future/384646/>

Education

These resources provide ideas about educational aspects linked to 3D or digital technologies.

Digital Arts and Entertainment <http://www.digitalartsandentertainment.be/>
The educational side of renewable energy <http://www.gizmag.com/off-grid-classroom-update/28180/>

Conferences, exhibitions & events

This list of conferences, exhibitions and events in the digital heritage domain is by no means complete but tries to list not only the well known activities but also other interesting, lesser known events that were encountered during research.

2012

ArcheoVirtual 2012 <https://www.youtube.com/watch?v=gbQssBMkIOY>
AVICOM 2012 <http://lanyrd.com/2012/fiamp2012/>
Joconde http://www.culture.gouv.fr/documentation/joconde/fr/partenaires/AIDEMUSEES/journee_BDNC_2012/journee-pres.htm
CHI 2012 <http://chi2012.acm.org/>

2013

Built Heritage <http://www.bh2013.polimi.it/>
Virtual Archaeology workshop <http://vamct.syros.aegean.gr/2013/aims-scope.shtml>
Advances in Computer Entertainment <http://www.advancesincomputerentertainment.org/>
DigitalHeritage <http://www.digitalheritage2013.org/>
DISH <http://dish2013.nl/>
CHI 2013 <http://chi2013.acm.org/>



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2014

Advances in Computer Entertainment <http://www.ace2014.info/>
CHI 2014 <http://chi2014.acm.org/>

2015

2+3D Photography <https://www.rijksmuseum.nl/nl/2and3dphotography>
Digital Heritage <http://www.digitalheritage2015.org/>
Europeana Creative Design Challenge <http://ecreativedesign2015.istart.org/>
Theory and Practice of Digital Libraries (TPLD) <http://tpdl2015.info/>
Week van het Digitaal Erfgoed <http://weekvanhetdigitaalerfgoed.nl/>

Yearly

Screen4all <http://www.screen4allforum.com/en/>
Museum Ideas <http://www.museum-id.com/event-detail.asp?id=437>
Nodem <http://nodem.org/>
Advances in Computer Entertainment <http://www.ace2014.info/>
Invasioni Digitali <http://www.invasionidigitali.it/en>
International Conference on Theory and Practice of Digital Libraries (TPDL) <http://www.tpd.eu/>
Digital Shoreditch <http://digitalshoreditch.com/>
Future Everything <http://futureeverything.org/festival/>
REAL <http://www.real2015.com/>
Collaborative and immersive 3D <http://inspiencethe3d.com/>
International education <http://www.eaie.org/home/conference/>
Theory and Practice of Digital Libraries (TPDL) <http://www.tpd.eu/>
Museums and the Web <http://www.museumsandtheweb.com/>
Sime Sitem <http://www.museumexperts.com/>
Laval Virtual <http://www.laval-virtual.org/en/>
ArcheoVirtual <http://www.archeovirtual.it/>
Conference on Cultural Heritage and New Technologies <http://www.chnt.at/>

Magazines, Blogs & Social Media

Online magazines, blogs and other social media concerning virtual museums, digital heritage and the use of digital technologies in museums and cultural heritage

Museums

Museum-ID <http://www.museum-id.com/magazine-detail.asp?id=436>
The Museum of the Future <http://themuseumofthefuture.com/>



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ExhibiTricks <http://blog.orselli.net/>
Dutch museum crisis (Faronet) <http://www.faronet.be/blogs/olga-van-oost/nederlandse-museumcrisis>
YouTube channel Louvre-Lens <https://www.youtube.com/user/chainelouvre/lens/>
Smart replicas <http://smartreplicas.blogspot.nl/>

Monuments

VR and Endangered Heritage <http://vrheritage.com/en/>
Old Saint Peter Basilica at Rome <http://churchhistorysurprise.blogspot.be/2011/02/in-almost-all-of-ancient-and-early.html>

Arts

Orthodox Arts <http://www.orthodoxartsjournal.org/>

History & Archaeology

The History Blog <http://www.thehistoryblog.com/>
Regolini Galassi Tomb <http://regolinigalassi.wordpress.com/>
The Monte Michele Tomb Nr. 5 <http://montemichele.wordpress.com/>
Ename Abbey <http://enameabbey.wordpress.com/>
Ename around 1000 <http://enearound1000.wordpress.com/>
The Great War at Raversyde <http://thegreatwaratraversyde.wordpress.com/>
Egmont castle at Zottegem <http://egmontkasteelherleeft.wordpress.com/>
It's about time (manuscript illustrations) <http://bjws.blogspot.be/>
Vroeger & Zo <http://www.schooltv.nl/programma/vroeger-zo/>
The Canon of the Netherlands <http://www.entoen.nu/>
Heraldry <http://www.briantimms.fr/contents.html>
Cultuurhistorisch Venlo <http://cultuurhistorie.venlo.nl/>
Museums in Baden-Württemberg <http://kulturreise-ideen.de/geschichte/archaeologie/Tour-archaeologie-in-baden-wuerttemberg.html>
Heritage interpretation and inspiration <http://www.inheritage.eu/>
Historiek history news <http://historiek.net/>
Köln http://www.planet-wissen.de/politik_geschichte/mittelalter/leben_im_mittelalter/av_archoe_jo.jsp
Ijzertijdboerderij <https://ijzertijdboerderij.wordpress.com/>

LinkedIn

LinkedIn Secrets <http://linkedin-secrets.com/>



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European Projects and Competence Centres

A non-comprehensive list of European projects and organisations, linked to projects, that are related to digital heritage and virtual museums.

Partage Plus (with 3D models) <http://www.partage-plus.eu/>
Art Nouveau Network <http://www.artnouveau-net.eu/>
MaxiCulture <http://www.maxiculture.eu/>
Creative Cultural Heritage <http://www.creative-heritage.eu/>
Heritage Portal <http://www.heritageportal.eu/>
APARSEN <http://www.alliancepermanentaccess.org/>
Etruscanning 3D <http://www.thehistoryblog.com/archives/24468>
GALA (Network of Excellence for Serious Games) <http://www.galanoe.eu/>
Digital Heritage Commons <http://dhcommons.org/>
Cultural Heritage Innovation European Forum <http://chief.uc.pt/>
Palatium <http://www.courtresidences.eu/index.php/home/>
Open Preservation Foundation <http://openpreservation.org/>
Blender Network <https://www.blendernetwork.org/>
Museums Online <http://mcn.edu/museums-online/>
Decipher (Storytelling for cultural heritage) <http://www.decipher-research.eu/>
Futurium <https://ec.europa.eu/digital-agenda/futurium/en>
European Network of Business and Innovation Centres <http://ebn.be/>
Europeana Creative <http://www.europeanacreative.eu/>
meSch <http://mesch-project.eu/>
Ariadne research infrastructure <http://www.ariadne-infrastructure.eu/>
DARIAH research infrastructure <https://www.dariah.eu/>
SmartMuseum <http://www.smartmuseum.eu/>
The Learning Museum <http://www.lemproject.eu/>
PrestoCentre <https://www.prestocentre.org/>
Creative Incubators <http://www.incompassproject.eu/>
Museum ID <http://www.museum-id.com/>
RadioPast <http://www.radiopast.eu/>
OpenGLAM (Open Galleries, Libraries, Archives and Museums) <http://openglam.org/>
3D ArcheoLab <http://www.3d-archeolab.it/>
COSH <http://cosch.info/>
COSCH <http://cosch.info/>
Ecsite (European Network of Science Centres & Museums) <http://www.ecsite.eu/>
CHESSEX <http://www.chessexperience.eu/>
Europeana Creative <http://www.europeanacreative.eu/>
Europeana Labs <http://labs.europeana.eu/locations/>



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Open Living Labs <http://www.openlivinglabs.eu/>
Advanced Computing for Innovation <http://www.iict.bas.bg/acomin/>

International and Regional Heritage Organisations

A non-comprehensive list of organisations on regional or international level that are related to digital heritage and virtual museums.

ICOFOM (museology) <http://network.icom.museum/icofom>
AVICOM (AV and technology) <http://network.icom.museum/avicom>
ICOM Europe <http://www.icom-europe.org/introduction.html>
Cultural Heritage without Borders <https://www.facebook.com/CHwBBiH>
Cultural Heritage without Borders BiH <http://chwb.org/bih/>
Cultural Heritage without Borders <http://chwb.org/>
Balkan Museum Network <http://bmuseums.net/>
ICOM Vlaanderen <https://www.facebook.com/icomvlaanderen>
Stichting Cultureel Erfgoed Zeeland <http://www.scez.nl/>
Erfgoedkaart Vlaanderen <http://www.erfgoedkaart.be/>

Sustainability

Organisations that work around sustainability

Digital durability <http://projectcest.be/blog/node/313>
Maximise impact for cultural heritage projects <http://www.maxiculture.eu/>
Platform independent games publishing <http://blogs.unity3d.com/2013/05/15/broaden-your-reach-with-multiplatform-publishing/>

Innovation

Resources that focus on innovation and creative industries

Innovation excellence <http://www.innovationexcellence.com/>
Innovation and creativity <http://www.innovationexcellence.com/blog/2013/05/13/creativity-innovation-and-cake/>

IPR

Resources that focus on IPR



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A guide to intellectual property rights <http://www.bbc.com/news/technology-23673385>

Online digital repositories of historical images and 3D objects

Medieval manuscripts and iconography

Sanderus Flandria Illustrata vol. I and II

http://belgica.kbr.be/nl/coll/lp/lpVB10335E_nl.html

Sanderus Flandria Illustrata vol. III

<http://www.flandrica.be/items/show/7192065/>

Sanderus Flandria Illustrata IV onuitgegeven (Frans-Vlaanderen)

<http://images.kbr.be/multi/16823Viewer/imageViewer.html>

Van Deventer

<http://bdh-rd.bne.es/viewer.vm?id=0000000337> (villes de Belgique)

<http://bdh-rd.bne.es/viewer.vm?id=0000043514> (part 2)

<http://bdh-rd.bne.es/viewer.vm?id=0000015403> (part 3)

Veil Rentier

http://lucia.kbr.be/multi/ms_1175Viewer/imageViewer.html

Flandrica

<http://www.flandrica.be/>

Historische bronnen Brugge

<http://www.historischebronnenbrugge.be/>

Belgica

<http://belgica.kbr.be/>

Literatuur uit Nederland en Vlaanderen

<http://www.dbnl.org/>

Archives de littérature du moyen âge

<http://www.arlima.net/index.html>

Royal library of Belgium

<http://belgica.kbr.be/>

Hathi Trust Digital Library

<http://www.hathitrust.org/>

Europeana

<http://europeana.eu/>

Getty Institute

<http://www.getty.edu/art/>

Google Cultural Institute

<http://www.google.com/culturalinstitute/>

Google Art Project

<http://www.google.com/culturalinstitute/project/art-project>

manuscripts enluminés de la BnF

<http://mandragore.bnf.fr/>

Bibliothèque numérique du BnF

<http://gallica.bnf.fr/>

<http://gallica.bnf.fr/advancedsearch?lang=EN>



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Bibliothèque municipal de Rouen
<http://bibliotheque.rouen.fr/>
Austrian National Library
http://www.onb.ac.at/ev/digital_readingroom.htm
BnF – Enfance au Moyen Age
<http://classes.bnf.fr/ema/>
Enluminures
<http://www.enluminures.culture.fr/>
Bibliothèque virtuelle des manuscrits médiévaux
<http://bvmm.irht.cnrs.fr/>
Liber Floridus
<http://liberfloridus.cines.fr/>
Wellcome images
<http://wellcomeimages.org/>
Oxford Bodleian Library
<http://bodley30.bodleian.ox.ac.uk:8180/luna/servlet/ODLodl~1~1>
British Library manuscripts
<http://www.bl.uk/manuscripts/>
Medieval Illuminated manuscripts KB Nederland
<http://manuscripts.kb.nl/>
Nationale bibliotheek KB Nederland
<http://www.kb.nl/bladerboeken>
<http://www.kb.nl/speciale-collecties>
<http://www.kb.nl/expositie-topstukken>
<http://www.kb.nl/webexposities/hoogtepunten-uit-middeleeuwse-handschriften>
Rijksmuseum Nederland
<https://www.rijksmuseum.nl/nl/rijksstudio>
Selection of images from manuscripts
<http://illumano.tumblr.com/>
Wikipedia Commons
http://commons.wikimedia.org/wiki/Category:15th-century_illuminated_manuscripts
Gutenberg project
<http://www.gutenberg.org/>
Bibliothèque municipal de Laon
<http://manuscrit.ville-laon.fr/>
Mount Angel Abbey
<http://www.mountangelabbey.org/library/manuscripts.htm>
University of South Carolina
<http://scmanuscripts.org/>
Roman de la Rose
<http://romandelarose.org/>
List and blog of medieval manuscripts
<http://blog.pecia.fr/category/Manuscrits-numerises>
Bibliothèque numérique de Moulins
<http://mediatheques.agglo-moulins.fr/agglo-moulins.fr/>



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Thyssen-Bornemisza museum
<http://www.museothyssen.org/thyssen/home>
Bamberg Staatsbibliothek
<http://www.staatsbibliothek-bamberg.de/>
Skriptorium – Mittelalterliche Buchkunst
<http://www.hdbg.de/skriptorium/>
Virtual Manuscript Library of Switzerland
<http://www.e-codices.unifr.ch/en>
Royal Museum for Fine Arts Brussels
<http://www.opac-fabritius.be/>
Europeana Regia (Carolingian and Renaissance Royal Libraries)
<http://www.europeanaregia.eu/nl>
Medieval Electronic Scholarly Alliance
<http://www.mesa-medieval.org/>
Online Froissart
<http://www.hrionline.ac.uk/onlinefroissart/>
Manuscripts online (Britain, 1000-1500)
<http://www.manuscriptsonline.org/>
The Canterbury Tales
<http://www.chaucermss.org/series/>

Others

Riches Heures
<http://www.richesheures.net/>
Move
<http://www.museuminzicht.be/public/collecties/index.cfm>
Ashmolean museum Oxford
<http://www.ashmolean.org/collections/online/>
DAI (German Archaeological Institute)
<http://arachne.uni-koeln.de/drupal/>
KIK-IRPA
<http://balat.kikirpa.be/intro.php>

3D Objects

Carnuntum
<https://www.carnuntum-db.at/>
Small archaeological artifacts
<http://artefacts.mom.fr/>