

DCAD VectorSpace is a trademark of the DOTSoft Inc. - Virtual Lab s.a.s - Aplicaciones GraphiCAD C.A. (*).
(*) DOTgroup (Pending Consortium). Software Copyright 1998-2011 DOTSoft Inc. All rights reserved worldwide.

DCAD organizer, DCAD line, DCAD translator, DCAD optimizer and DCAD technical are trademarks of Virtual Lab s.a.s and may be registered in certain jurisdictions.
Software Copyright 2003-2011 Virtual Lab s.a.s. (Language translation by GraphiCAD C.A. - Development consulece Arch. Hernan Pisani).
CINEMA 4D is a trademark and a product of Maxon Computer GmbH. The CINEMA 4D logo, icons and interface design of DCAD optimizer is courtesy of Maxon Computer GmbH.

Parametric Tools Technology - Software Copyright 2002-2011 DOTSoft Inc.. - Licensed to Virtual Lab s.a.s and Aplicaciones GraphiCAD C.A..
Virtual Lab Parametric Tools - Software Copyright 2003-2011 Virtual Lab s.a.s.. - GraphiCAD Parametric Tools - Software Copyright 2003-2011 Aplicaciones GraphiCAD C.A..
"Vector-Ray" is a render mode created by Virtual Lab s.a.s. - Copyright 1996-2011 Virtual Lab s.a.s..

Apple, LaserWriter, Macintosh e Power Macintosh, Mac OS, Mac OS X, QuickDraw, QuickDraw 3D, QuickTime, QuickTime VR, True Type is a trademark of Apple Computer Inc..
Windows 95/98/NT4/2000/XP/Vista/Windows 7, Office, Word, Excel is a trademark of Microsoft Corporation.
AutoCAD, DXF-DWG-DWF is a trademark of Autodesk Inc..
FileMaker is a trademark and a product of FileMaker Inc..
VectorWorks® is a trademark and a product of Nemetschek N.A. (formerly Diehl Graphsoft Inc.).
Adobe Photoshop is a trademark and a product of Adobe Systems Incorporated.

Other names and other product brands mentioned are property of their respective corporations.

Sometimes being in need to buy or upgrade your software can result in receiving nothing but the box.

Virtual Lab-DOTgroup doesn't simply produce a "box" but provides fresh and advanced solutions.

We've been working for years to better our products. This is also thanks to our close relationship with the end-user.

When in doubt, our phone, fax, email and video conference services are always there when you need them, all accompanied by a sincere smile.

Virtual Lab-DOTgroup also means forming, studying and designing CAD based multiplatform solutions and their own self-maintenance.

To that end, **Virtual Lab-DOTgroup** also integrates:

- Custom software solutions based on our parametric CAD technology for institutions and industries;
- Specific software additions for our current products;
- Basic and Advanced level courses on use of our software. You can choose your course times and opt to have the course made available in your own office or home;
- Specific strategic advice for small offices or large companies, all aimed at getting the best level of efficiency for our users' clients.



The Solid Solution

(Restore the balance, Change your philosophy, simplify your productivity)



Virtual Lab

Via Dante Alighieri nr.14 - 20090 Vimodrone (MI) - Italy
Tel. +39-02-274.09.467 +39-02-250.29.462
Fax +39-02-250.29.462

email: info@virtuallab.it
info@virtuallab-tech.com
web: www.virtuallab.it
www.virtuallab-tech.com
Skype: jedidcad



A Corporation of: DOTSoft Inc. - GraphiCAD C.A. - CADOT S.L. - Virtual Lab Sas - Virtual Lab Australia

2D/3D CAD developer software for Architecture & Construction industry, Expo stands, Scenography, Interior design, Furniture industry, Archeology.
Consultant on Mac OS and Windows platforms.
VAT number: IT02826120962



DCAD VectorSpace is a product recommended by the AIPi.
(Italian association for Interior Architecture designers).

DCAD VectorSpace is the 2D/3D CAD solution for users seeking innovation and simplicity.

From a cube to a skyscraper, **DCAD VectorSpace** expresses the typical Italian creativity alongside products you might already be using.

Aside its 2D design, modeling, data analysis, vector and photorealistic rendering modes, animation and virtual nodes, stereo graphics and data exchange capabilities, **DCAD VectorSpace** together with its **DCAD organizer**, **DCAD line**, **DCAD technical**, **DCAD translator** and **DCAD optimizer** for **CINEMA 4D** modules will deliver surprising results that will leave you stunned.

"3D Design" has never felt so natural.



The secret to a great design is in its own simplicity...
DCAD VectorSpace, the 2D/3D rendering and illustration software
 is the simplest way to express your creativity.

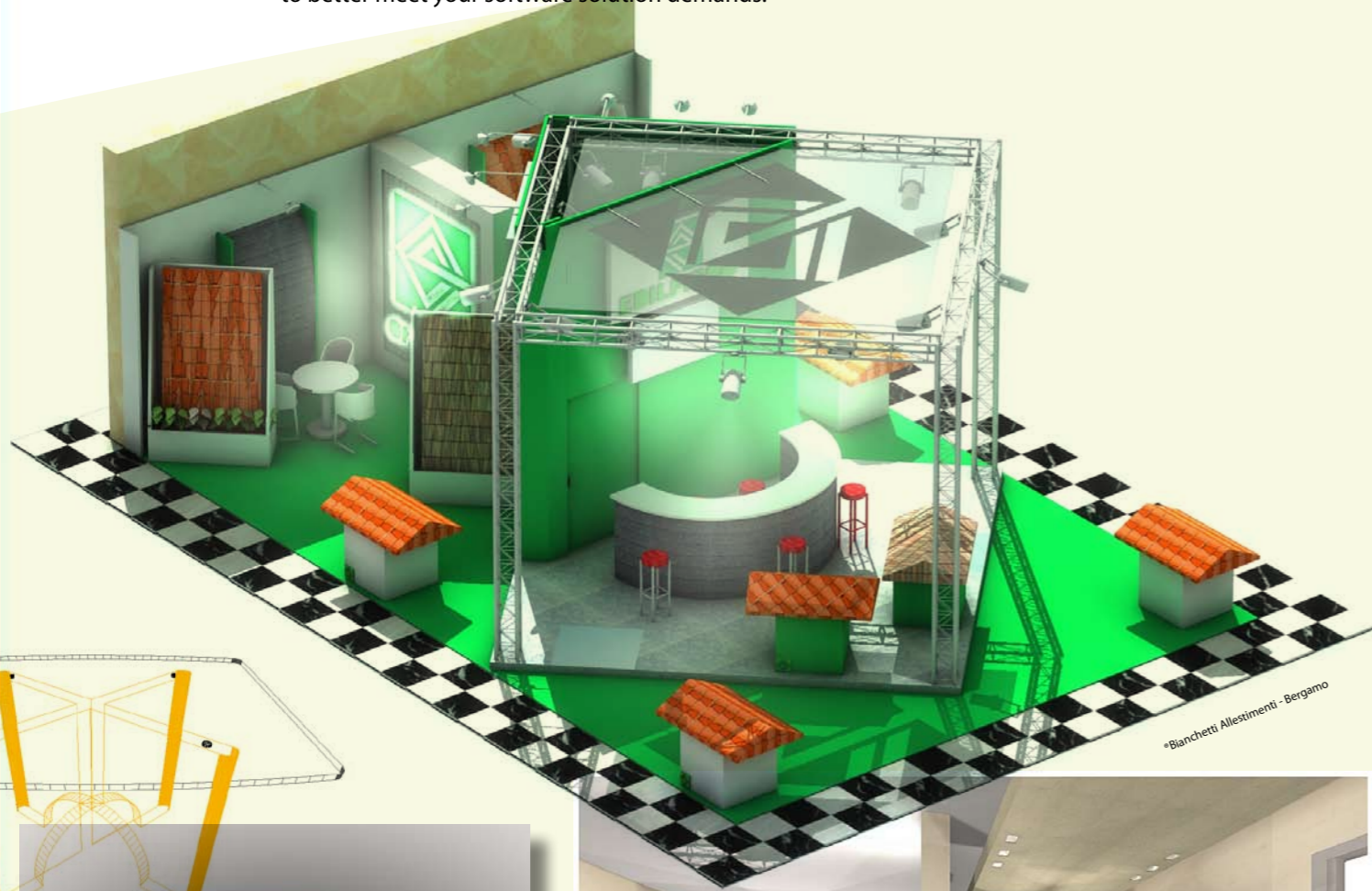
It's time to try it! 



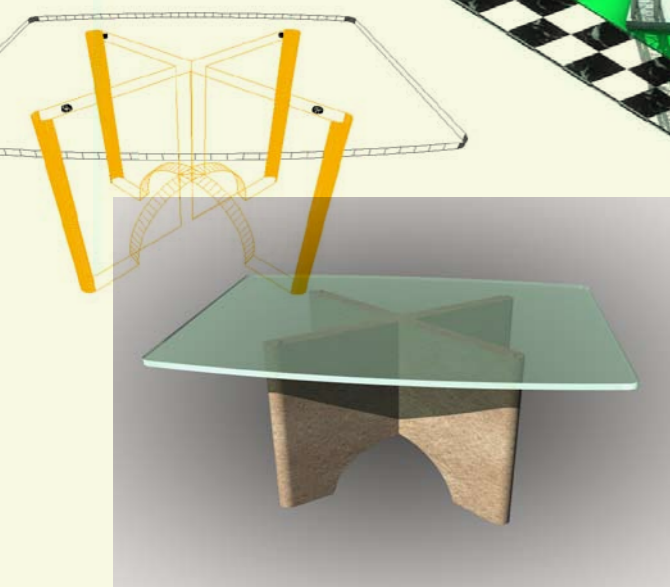
DCAD VectorSpace is the 2D/3D CAD solution dedicated to architecture, design, engineering, expo stands & scenography, monuments and funerary art, landscaping, archeology and communication teachers and graphs.

Born from names of historical significance in the software development field for the Apple platform, **DCAD VectorSpace** brings unique designing pleasure together with being able to amaze both one self and others.

Like that wasn't enough, our development department is able to create exclusive software solutions to better meet your software solution demands.



*Bianchetti Allestimenti - Bergamo



*Cazzaniga Marmi - Villasanta (MI)



*Archgroup-Renzo Visentin & Luigi Pallavicini - Lissone (MI)

Virtual Lab - our company, a dream come true:

Born in the 80's as an architectural design studio, **Virtual Lab** later evolved into a dynamic society initially specialised in CAD software development that were integrated with the MiniCAD/VectorWorks engine by Diehl Graphisoft Inc. U.S.A. (Now known as Nemetshek North America), their work dedicated to architecture, design and building in the MacOS and Windows operating environments.

Back in 2001 a big change came about: **Virtual Lab** merged with two societies of historical significance across the sea: The United States' own **DOTSoft Inc.** and Venezuela's **GraphicAD C.A.**, spawning "Synthetic Technologies Inc.", later to become the **DOTgroup Consortium** (Design Oriented Technologies & CAD Solutions). We're currently located in places like Milan (Italy), Melbourne (Australia), Madrid (Spain), Miami (FL)-USA and Caracas (Venezuela).

DCAD VectorSpace and the other products that follow it are the revolutionary result of this union.

DOTgroup's work can be looked at as a meld of fantasy and technology. Not only do their software solutions provide a high level of computer engineering but they also connect with the end user leaving a lasting impression and bringing back the enthusiasm we all have for using such technologies in our work. This does not in any way undermine the end result of a user's own work which will still reflect his identity and creative spark as a designer.

DCAD VectorSpace - specifications:

- Multiplatform software for MacOS X (10.4, 10.5 or better), Windows (XP and Vista) - Suggested requirements: Pentium 4 or better (G4 or better for less recent Apple models), 1GM RAM or better, Quicktime 7 or better, DVD/CD ROM reader.
- The user interface is extremely simple to understand so you spend less time learning and more time designing. An elevated operating speed and better management of larger files, using less RAM compared to other products on the market.
- Choice of different measuring units (Metres, Centimetres, Kilometres, high precision decInch (up to 16 decimal digits), angular settings with degrees in decimals, minutes, seconds or radiant - absolute cartesian, polar, relational, azimuth, geographical and gradient co-ordinates.
- Layer management for a maximum of 256 layers, all with their own viewpoints for the document's 2D (6 views per layer) and 3D environments. Unlimited worksheet size and customisable graphic scale settings. Millions of colors (opposed to the original 256 color capability), bitmap screens and vector screens with up to 4 levels.
- Geometric Dynamics Control" system with an exclusive dynamic snapshot system directly linked to the grid and all 2D/3D objects with controllable tangent, direction, intersection, inclusion, perpendicular and central points which can all be recalled keyboard shortcuts. A powerful search and selection tool for all graphical 2D and 3D objects.
- complete collection of texture materials and the ability to generate them from imported files (photographs and other) with a simple dialogue box asking you to only set light, gloss, reflection and transparency factors.
- Three integrated operating interactive environments: 2D Drawing, 3D Modeling and Rendering with distinctive controls available in the tools palette for each operating environment and dynamic help images to help you set their parameters. Ability to display three viewpoints simultaneously in any of the three operating environments available. This feature works with single, double and triple monitor setups.
- 2D and 3D environments distinct and available in the same document with ample interaction between the two. exclusive 3D viewpoints management and a "save settings" feature to speed up design. Additional viewpoints and "straighten" settings.
- "Boolean Memory" system with complete 3D and 3D boolean operations with canceling option and unlimited undo steps for every 2D and 3D object, even after re-opening a previously closed file.
- 2D/3D object library creation and library editing options at any given point in time.
- Modeling options from any viewpoint including advanced piping, parallelepiped extrusion, revolution and bevel extrusion. Specific 2D/3D elements creation including relief, masonry, holes and windows, ramp staircases, roofing, tin, C-L-T-Z-H iron sections, finished canonical solids and others.
- Project management for work groups with additional native AutoCAD file references or any other program compatible with DXF and DWG formats.
- File importation for the following formats: .dwg 2D/3D, .dxf 2D/3D, .3dmf (QuickDraw 3D metafile), DenebaCAD, Iges 2D, .ptf 2D/3D, .cgm, .eps, .eps raster, .gif, .bmp, .hpgl, .jpg (or .jpeg), .pict, .tiff, .psd, .png, QuickTime Image, QuickTimeVR, .wmf.
- Integrated analysis manager (spreadsheets exportable as tabulated data compatible with Word, Excel, FileMaker and similar apps) and custom files to obtain information about: perimeter, 2D and 3D area, volume and quantity with relative elements descriptions.
- Deliverables print management with driver compatibility towards most common printers or plotters and .pdf format save compatibility (through use of given conversion programs)
- Point (lamp), spot and solar type lighting elements (choice of location, time, day and month).
- Ray-tracing based Rendering engine with native technology (lighting, reflection, refraction, transparency, strong and soft shadowing with settable parameters) and hidden-line allowing users to obtain the exclusive "Vector-ray" mode (photorealism with vectorised outlines).
- Technical 2D orthogonal rendering derivatives such as plans, elevations, axonometric, isometric-perspective, cross sectional and perspectives with dimensioning in various styles. Exclusive "Rendering Memory" that allows you to modify the 3D model and get an updated page with previously finished renders. Production of high definition technical or photorealistic images with "soft" definitions.
- Integrated QuickTime and QuickTime VR technology allows users to create animated films using paths. Stereography in rendering and animations to be used with a suitable pair of bicolour 3D goggles.
- Additional software included in the package: **DCAD organizer** (DCAD VectorSpace application manager), **DCAD Line** (analysis with vector sketch effects), **DCAD Technical** (design assistant), **CAD File Converter** (the DWG-DXF translator) and CD Goodies which contains a rich collection of 2D and 3D library objects, finished materials, graphical files for new materials, rendering backdrops and tutorial videos.



DCAD VectorSpace - The idea takes shape...

For all professionals, **DCAD VectorSpace** offers a varied 3D and 3D design environment joint together with specific instruments which allow you to sketch down your concept and elaborate on it further.

Thanks to such a compatibility range you will be able to import 2D projects and give them three dimensions with a few simple clicks.

The creation of graphic entities thanks to an extremely graphical and direct concept, straying away from a traditional CAD system's typical rigidity and offering that freedom of expression you're looking for.

The orthogonal modeling environment allows you to directly extrapolate technical drawings into 2D drawings at any wanted time, whether it be for realistic drawings or hidden line removal.

The power of 3D section views and the possibility to memorise relative views helps you pick up this application quickly even if you never had the chance to work with 3D software before.



DCAD Smart is the answer to your furniture design needs. Free organisation of its inner workings make it the ideal piece of software to design both single furniture elements and complete compositions.

DCAD Smart contains complete functions that allow the parametric creation of shoulders, speakers, clogs, shelves, drawers and doors. Its powerful procedures facilitate designing both style and modern type furniture, allowing the user to memorise each single item or a complete piece of furniture as a library object in order to re-use it in other compositions or to be edited to create custom libraries to best suit one's needs.

Through **DCAD VectorSpace's** own Analysis Manager users can obtain computation lists with information on technical aspects such as dimensions, 3D surfaces, volume and number of pieces. All of this data can be exported to any common software that supports tabulated data.



DCAD translator allows for the conversion of files from the Vectorworks file format to **DCAD VectorSpace's** native file format.

DCAD translator also provides conversion to the typical topographic map "xyz" format (either tab or comma) by simply creating a series of 3D faces into **DCAD VectorSpace** representing 3D terrain level curves.

This software's compatibility with other files is constantly being updated in order to allow better communication with a broader range of software available on the market.

Nome elemento	Tipologia	Materiale	Spess. struttura	larghezza elemento	Profondità elemento	Altezza elemento	Numero Totale
Cassa base	Componente cassa	02-WMR_Merant	3	60	60	-	1
Cassa telaio	Componente cassa	02-WMR_Merant	3	60	60	-	1
Cassa fianco DX	Componente cassa	02-WMR_Merant	2	-	60	60	1
Cassa fianco SX	Componente cassa	02-WMR_Merant	2	-	60	60	1
Cassa ripiani interni	Componente cassa	02-WMR_Merant	2	56	58	-	1
Cassa schermo	Componente cassa	02-WMR_Merant	1	57	-	56	1
Cassetto mobile	Cassetto_1	02-WMR_Merant	2	55	35	20	2
Maniglia cassetto	Maniglia_9	02-WMR_Merant	2	-	35	-	2
Ripiani mobile	-	06-CSC Vetro verde soffuso	2	60	35	-	4
Spalle mobile	Spalla_arrotondata	02-WMR_Merant	3	-	35	200	2
Zoccolatura mobile	Robotella_media	-	-	-	-	-	4





*Studio Val Proget - Gardone Val Trompia (MI) - (Italy)



DCAD technical is **DCAD VectorSpace's** "design assistant with analysis" capabilities and will be aimed towards complete technical data management for designs.

DCAD Technical comes with an series of functions dedicated to **DCAD VectorSpace** file audits and editing of dimensioning, text and other elements.

It's therefore possible to run automatic dimensioning in different modes, find and change text in the design, find and edit the font's height, give a fill colour to the 2D elements derived from .dxf and .dwg formats (usually not covered by these formats), find and fix graphical element errors post-importing .dxf or .dwg formats.

DCAD technical also has a special "Direct Storage Library" environment, or DSL. This helps organise 2D and 3D library related files and convert them to functions to better organise and recall their symbols within **DCAD VectorSpace**.



DCAD optimizer is a manager and converter for 3D scenes generated by **DCAD VectorSpace** for use with Maxon's **CINEMA 4D**.

DCAD optimizer is an application that allows the close interaction between **DCAD VectorSpace** and **CINEMA 4D**, the award-winning professional modeling, rendering and animation software.

This is not just another plug-in, but a piece of stand-alone software that manages complex 3D scenes for **CINEMA 4D** allowing it to integrate with **DCAD VectorSpace**.

DCAD optimizer runs a precise conversion of all 3D elements present in a scene keeping track of any originally set colours and materials including any effects added. Lighting effects - including solar - undergo a strict conversion in **CINEMA 4D** maintaining every given trait.

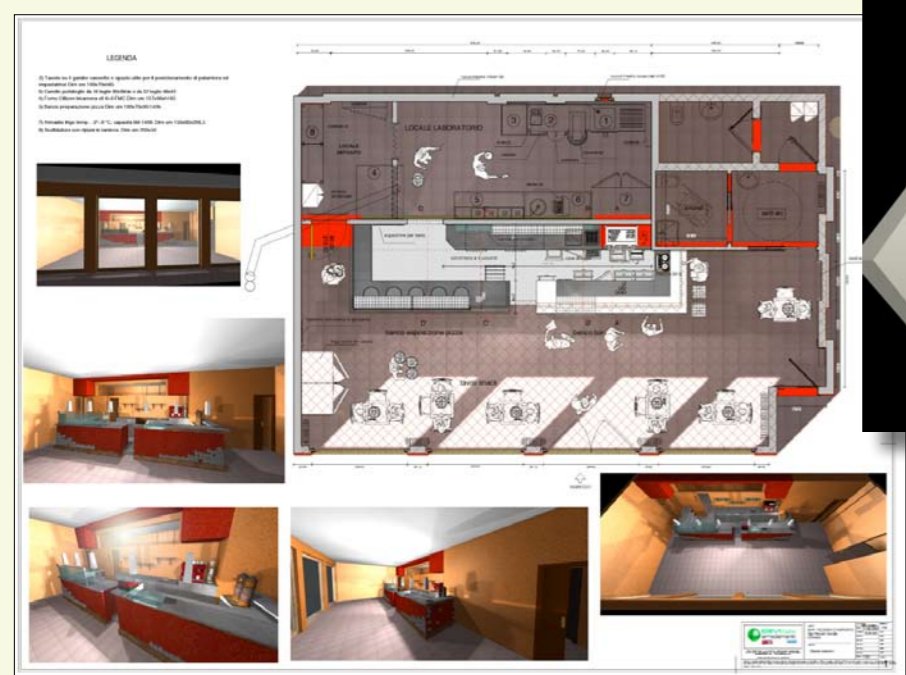
The scene is automatically laid out including the main viewpoint picked in **DCAD VectorSpace**, taking the hassle right out of re-arranging everything in your scene after the conversion process before you can move onto your final rendering.

With **DCAD optimizer** using **CINEMA 4D** has never been easier!

The way **DCAD VectorSpace** works allows it to set up a 2D drawing with the ability to quickly switch to 3D or to directly operate in a modeling environment.

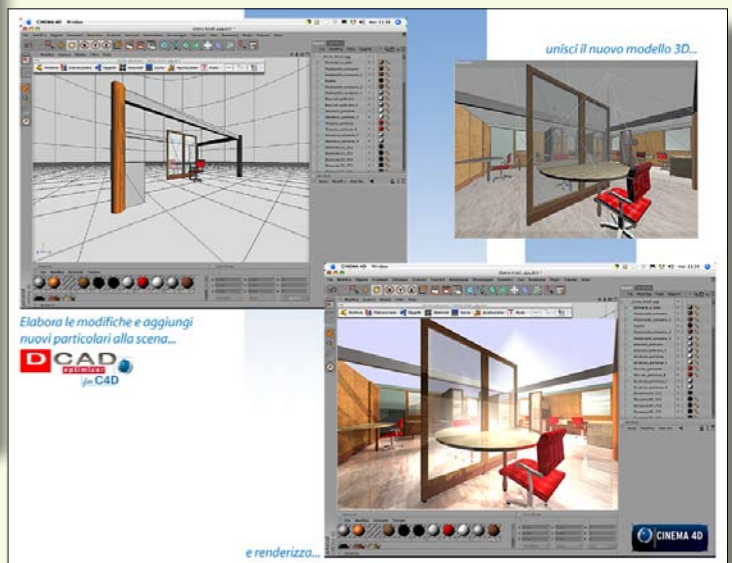
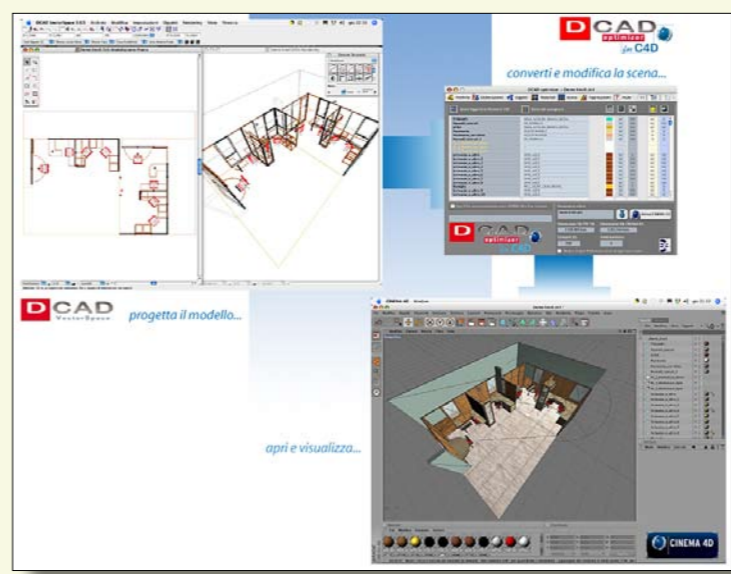
DCAD VectorSpace comes with a very intuitive array of 2D and 3D tools, thanks to the help images added to every single function's parameter.

All the graphical 2D parts deriving from plants, prospects, sections, axonometric and perspectives can be extracted from the 3D model through a fast, intuitive rendering system which is both vector based and photorealistic. These will be needed for the final design's technical tables. **DCAD VectorSpace** also lets you draw solely in a 2D environment and gives you a choice to move onto creating in 3D later on should you choose to do so.



*Ciotti Studio - Patrizio & Pietro Ciotti - Gradara (PU)

DCAD VectorSpace's embedded QuickTime technology allows you to create path animations and VR nodes.



DCAD VectorSpace - Greats spaces, greats projects...

Being at ease with working on really big designs is **DCAD VectorSpace's** home soil.

Design work can be assigned to a specific team of designers in a studio who can team together as a workgroup thanks to our powerful file referencing system.

Such a system allows users to reference files on multiplatform systems, let it be our native **DCAD VectorSpace's** format, AutoCAD's format or any other program capable of managing .dxf or .dwg formats.



LEGENDE

- 01 Jetée sud
- 02 Aire de stationnement aériens (120 places)
- 03 Aire de cadrage
- 04 Atterrage naval (31)
- 05 Aire de stationnement aériens (60 places)
- 06 Entrée est du port
- 07 Sortie est du port
- 08 Parking en accès-est (80 places)
- 09 Parking aérien (81 places)
- 10 Locaux commerciaux (82)
- 11 Mail piétons
- 12 Voie de service double sens
- 13 Quai "La Pérouse"
- 14 Accès par voie nord RN 98
- 15 Escalier est
- 16 Voie de service sans utilité
- 17 Aire de stationnement aériens (127 places)
- 18 Passerelle piétons centrale
- 19 Aire de stationnement aériens "Gertaud" (50 places)
- 20 RN 98
- 21 Promenade piétons
- 22 Escaliers techniques en toiture
- 23 Locaux commerciaux (83)
- 24 Passerelle piétons ouest
- 25 Escalier ouest
- 26 Club-House (84) niveau inférieur
- 27 Station-service niveau supérieur
- 28 Sortie ouest du port
- 29 Entrée ouest du port
- 30 Aire de stationnement aériens (50 places)
- 31 Aire de stationnement aériens (88 places)
- 32 Locaux commerciaux (85)
- 33 Locaux commerciaux (86)
- 34 Aire de stationnement aériens (81 places)
- 35 Ponds d'assainissement
- 36 Clochemine (87)

