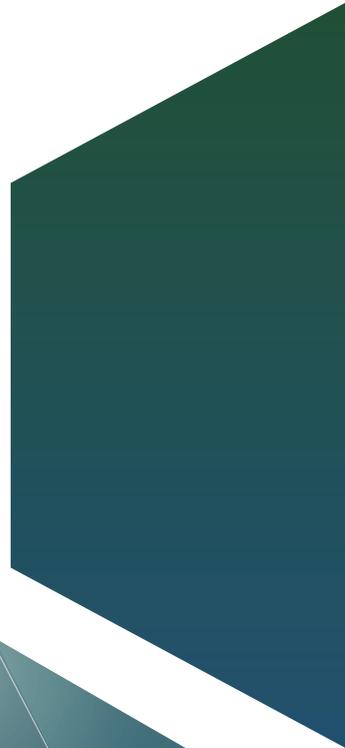
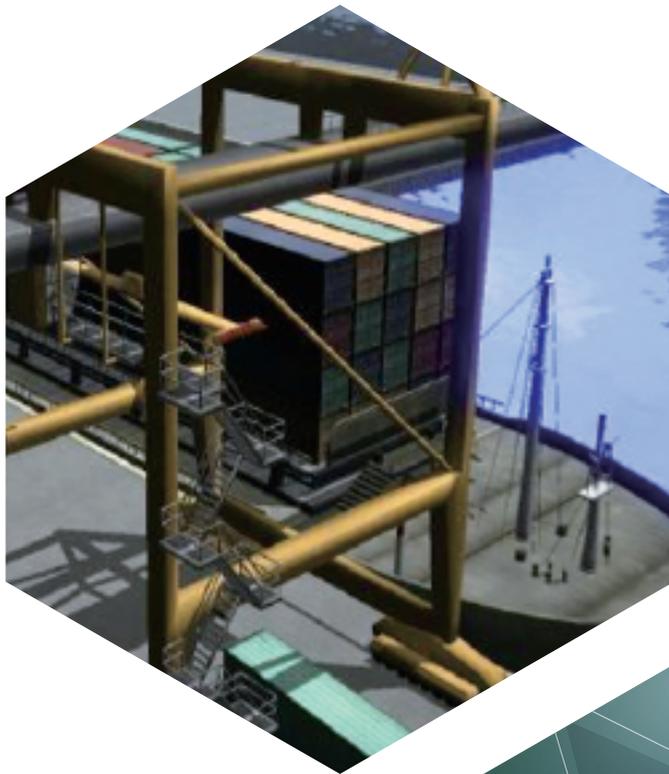


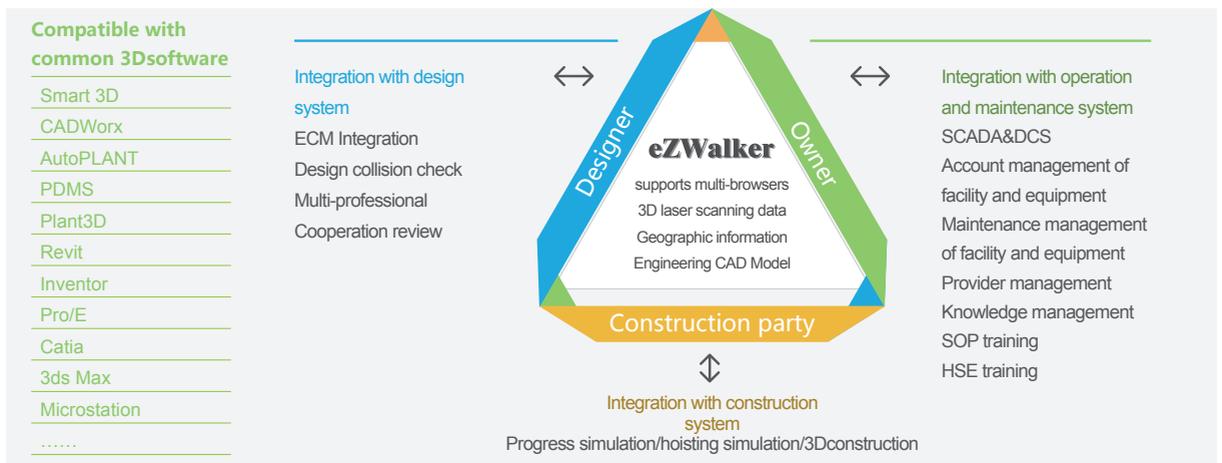
eZWalker

3D Visualization Cooperation Platform



eZWalker 3D Visualization Cooperation Platform

eZWalker 3D visualization cooperation platform independently developed by DMS is internally provided with multiple 3D system data, such as XRE rendering core with proprietary intellectual property right, seamless analysis building BIM, factory PIM, machinery and the like. Extreme lightweight project model and data can meet multiple commercial purposes of visualization project cooperation of EPC general contractor, 3D review of designer, construction simulation of constructor, visualization operation and training of owner as well as the platform requirement of visualization management of digital assets whole-life period and help the owner reach the target of intelligent manufacturing and industry 4.0. The platform supports multiple platform-in-one and multiple-terminal accessing. PC terminal and mobile APP can realize the functions of large-scale scene browsing, multiple-person meeting cooperation, human factor engineering inspection, etc. by strong rendering engine algorithm of the terminal program. Meanwhile, it can realize synchronous cloud data with PIM Center/BIM Center factory/building big data visualization management platform independently developed by DMS.



Multiple analysis formats, self-core industry engine

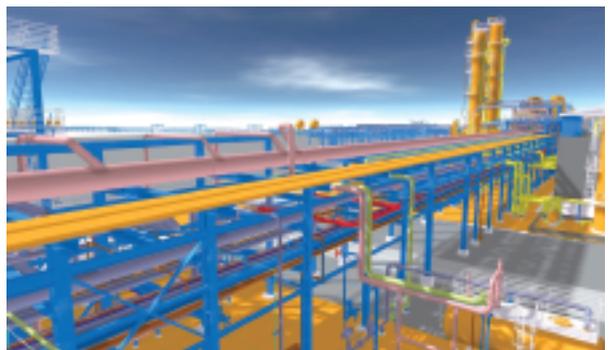
eZWalker supports multiple common 3D design softwares in plant, building and machinery industry. It is internally provided with independent engine and attribute information with loading object.

- The entertainment engine, such as Unity 3D/UE4, pays more attention to 3D effect display instead of attribute information of the engineering.
- Industrial engine has better performance in aspects, such as display efficiency of local dense large model, complete succession of engineering data, safety and stability of data.

Machinery MFG format	Building BIM format	Plant PIM format	Other formats
3Shape DCM(*.dcm)	DWG/DXF/DWF/DWFX (* .dwg;*.dxf;*.dwt;*.dwt)	AutoCAD Plant 3D (* .dwg)	JTOpen(*.jt)
ACIS (*.sat;*.sab)	IFC(*.ifc)	AutoPLANT(*.dwg)	Wavefront(*.obj)
CATIA V4 3D(*.model;*.exp)	Microstation(*.dgn)	CADWorx(*.dwg)	PLMXML(*.plmxml)
CATIA V5 3D (* .CATPart;*.CATProduct)	Revit 2014-2017	PDMS(*.rvm;*.att)	Procera(*.c3s)
CATIA V6 3D(*.3dxml)	Rhino(*.3dm)	PDS(*.dgn;*.drv)	VDAFS(*.vda)
CGR(*.cgr)		Smartplant 3D 2011/2014	
IGES 3D(*.igs;*.iges)			
Inventor 3D (* .iam;*.ipt;*.ipj)			
Parasolid(*.x;*.x_b)			
ProE/Creo (* .asm;*.prt;*.neu)			
Solid Edge 3D (* .asm;*.par;*.psm)			
Solidworks 3D (* .sldprt;*.sldasm)			
STEP(*.stp;*.step)			
UG NX(*.prt)			

Lightweight and big data processing technology

- The installation package of eZWalker is just about 100M, so it is smarter and more convenient compared with other navigating software larger than 1 GB.
- The lightweight model technology can compress the original model. The compressing ration can reach 10-50 times under the condition of keeping the original data.
- When loading model, the infinitely larger model can be supported theoretically by the loading mode based on demands (similar with the loading mode of map).



eZWalker 3D Visualization Cooperation Platform

● Powerful function and easy operation

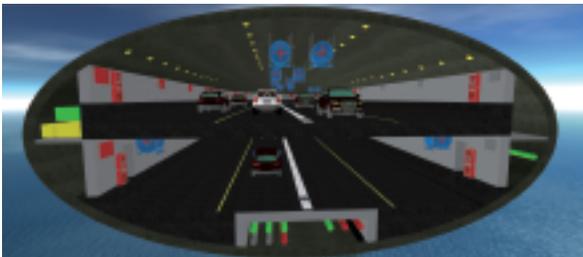
○ Obtain the catalogue tree and attribute of original 3D model

The catalogue structure and attribute information of original 3D model are kept in the model analyzed by eZWalker. It supports to add more attributes manually, so as to provide information foundation for further model and data reusing.



○ Easy & quick operation

In the navigating process, the model can be subject to transparency, hiding, color-changing, local cutting, whole cutting and measuring operations.



○ Efficient model review ability

In the model review process, the found problems support redline marking function, as well as multi-person nonlocal cooperation reviewing, by which, the review working efficiency can be improved further.



○ Support 3D glasses and VR mode

In order to improve user experience further, eZWalker supports 3D glasses, VR and other working modes, by which, the immersion experience of the mode will be more real, and the model inspection will be more appropriate.



○ The construction progress can be simulated in combination with Project plan.

eZWalker can display the working progress and deviation directly by relating 3D model with work schedule through importing the construction progress plan, and then it can guide the construction installation further.



○ Ergonomics

eZWalker is set with human factors engineering viewing model complying with the international standard. Ergonomics is also known as Human Factors Engineering. The optimizable point can be found proposed through simulating the actual operation, so as to guide the design and transformation of equipment and facilities, work mode, and the working environment, improving the efficiency, safety, health and comfort.



● Visible information integration achieves the maximum value of 3D data within the entire life-cycle of the asset management

eZWalker can be treated as a platform containing those functions, such as model analysis, publishing and displaying. The BIMCenter/PIMCenter engineering big data visualization system can be treated as data storing and managing platform. The visualization portal taking the 3D data as the center, meanwhile, the data in stages of design, construction, operation and maintenance will be integrated, by which, the package demand of EPC coordination, digital handover and asset management will be solved uniformly.

○ Visual assets management of intelligent plant

For both continuous manufacturing plants, such as petroleum and petrochemical, and discrete manufacturing plants, such as automotive electronics, we can help the owner carry out visual and virtual operation, maintenance as well as training (OTS) based on seamless analysis industry mainstream 3D system data (such as PDMS/SP3D/Catia/UG) and lightweight processing. Meanwhile, by integrating with MES, SAP, ERP, EAM, DCS, etc., 3D visual data can play value in the next operation and maintenance process of the plant and help the owner to carry out visual auxiliary decision.



○ Visual assets management of real estate

By analyzing BIM model and data deeply and the experience of many years of assets operation and maintenance, it can help the owner, commercial estate, park estate and self-estate of enterprise to reach the visible assets management target from the whole-life range of investment, financing, construction, management and withdrawing. Typical users comprise: Vanke, Longfor, Sino-Ocean, MCG, Global Logistic Properties, Lenovo, etc.



○ Visible cloud cooperation management of municipal traffic

It can make the data integration and interflowing with BIM model and optimize the design scheme and multi-professional platform cooperation and construction simulation with municipal design and construction.



○ Visible operation and maintenance of rail transit airline

Complex rail operation and maintenance can help the manager make decisions by visible platform.



○ Visual poling of municipal integrated pipe network

The visible platform of integrated pipe network of the smart city is built to read each sensor, monitoring system data and related file information in real time, and further improve the efficiency and safety of pipe network inspection, maintenance and management.



○ Visible information interaction platform of reservoir Visual poling of municipal integrated pipe network dam

The reservoir dam can complete the visible real-time management by GIS.



○ Visible operation and maintenance and lifting and unloading planning at the port terminals

The operation and maintenance smart control platform of equipment and facility can master and monitor the production element operation conditions of the loading machinery, flowing machinery, substation, lighthouse, etc. in the harbor district, and then it can improve the loading efficiency and reduce the operation cost. The platform can promote the production of the company from the safety management, equipment supporting, energy-saving and consumption reduction and improve the whole service level of the company so as to lay a foundation well.



○ Visible management dispatching of navigation management in airport

BIM model built in the construction stage can be completely shared by the operation and maintenance management technology based on BIM and GIS. The operation and management information can be inquired and monitored in real time. The property management, mechanical management, flow management, stock management, warranty and maintenance of the navigation station in daily operation and maintenance are supported. The management level and efficiency are effectively improved, and powerful supporting is provided to the related decision.



● Successful integration cases of eZWalker

Customer name

Project name

MCG

Management system of visible assets and facility

Morimatsu

Visible installation simulation project

Kangmei Pharmaceutical

Management system of visible facility and equipment

West pipeline of CNPC

Management system of visible facility and equipment

Ningdong Power Plant

Digital handover system

Optics Valley Union

Operation and maintenance management platform of visible equipment and facility

CPE Xinjiang

Collaboration and Management system on cloud for engineering





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Beijing DMS Software Stock Co., Ltd.

(hereinafter referred to as DMS), Stock code: 430311, is a professional infrastructure data visible technology and application provider. The Company is committed to providing visible whole-life period assets management and value promotion solution through self-core technology. The services cover bidding, concept design, detail design, construction, operation and maintenance, transformation and withdrawing, etc. The Company owns over 10 years of professional technology and accumulation, so the company has advantages in multiple technical fields, specifically leading in lightweight and mobile directions of visible technology. As a member of PCA & Fiotech ISO15926 (international infrastructure data standard organization) and Building SMART, the Company introduces international main data standard, combines mobile internet technology. DMS takes part in formulating China BIM standard, P-BIM application technology research of operation and maintenance management of building assets, P-BIM application technology research of operation and maintenance management of building space. Visible project cloud cooperation, digital transferring, HSE management and visible operation and maintenance are provided to international and national customers.

The Company owns the software and project service team exceeding 200 persons. Multiple service sties cover the whole country. The typical customers comprise: Leading enterprises in foundation facility field, such as Vanke, Longfor, Sino-Ocean, MCG, CSCEC, CNPC, Sinopec, CNOOC, GUOHUA ELECTRIC POWER, CGNPC, SNPTC, CNNC and other leading enterprises in infrastructure field.

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