



LUCULENT

朗开为怀 坤实致远
Open mind and warm heart
promote us with strength to
walk even further

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让我们共建智慧的工厂、园区、城市
Let's Build Smart Factories, Parks and Cities Together

全球领先的工业互联网平台提供商和工业大数据运营商
Global Leading Industrial Internet Platform Providers and Industrial Big Data Operators

铸民族软件中国梦
Realize Chinese Dream of Homemade Software

打造誉享全球的品牌
Cultivate a Brand of Global Reputation

Corporate Vision:

Make Industry Enterprises Smarter



Corporation Mission:

Industry Software Made by Luculent



董事长致辞 PRESIDENT ADDRESS



1999年，一批刚过而立之年的年轻人看到工厂设备的自动化控制虽然先进，但发现这些花大量资金的设备从购置、运行、维护、更新改造到报废的全流程管理依然非常粗放，且国内没有一家公司从事这种技术的商用开发，他们意识到蕴含先进的资产管理理念和设备维护策略的资产全生命周期管理的软件有着巨大的商用潜力。于是，他们将自动控制技术和信息技术巧妙地结合在一起，成立了如今的朗坤。

我们相信，21世纪是中国的时代，未来中国经济将取得举世瞩目的成就，成为全球举足轻重的经济体，中国文化将成为全球主导文化之一，中国将从文化、消费习惯等诸多方面影响并改变世界。在这一过程中，一批中国本土企业将会取得无法想象的成就，而推动、促进文化及消费习惯固化、优化的正是软件。作为中国软件企业大家庭的重要一员，朗坤已然成为工业4.0的先行者、佼佼者，为构建智慧的工厂、园区和城市贡献力量，再立新功。

朗坤智慧科技股份有限公司 董事长

In 1999, a group of young people who had just passed the age saw that although the automation control of factory equipment was advanced, they found that the whole process management of the equipment, which spent a lot of money, from purchase, operation, maintenance, renovation to scrap, was still very extensive, and no company in China was engaged in commercial development of this technology. They wanted to know that. It is recognized that the software of asset life cycle management, which contains advanced asset management concepts and equipment maintenance strategies, has tremendous commercial potential. Therefore, they skillfully combine automatic control technology and information technology to establish today's Langkun.

We believe that the 21st century is the era of China. In the future, China's economy will make remarkable achievements and become an important economy in the world. Chinese culture will become one of the leading cultures in the world. China will influence and change the world from many aspects such as culture, consumption habits and so on. In this process, a number of Chinese local enterprises will achieve unimaginable achievements, and it is software that promotes and promotes the solidification and optimization of culture and consumption habits. As an important member of the family of Chinese software enterprises, Langkun has become the pioneer and leader of industrial 4.0, contributing to the construction of intelligent factories, parks and cities, and making new contributions.

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公司简介 ABOUT LUCULENT

朗坤智慧科技股份有限公司（原南京朗坤软件有限公司）成立于1999年，公司在“智慧工厂、智慧园区、智慧城市”领域构建起“管理咨询+解决方案与产品+IT运维服务+IT监理服务”的全业务流程、全生命周期服务体系。经过二十年的发展，公司打造了一批具有自主知识产权的高科技产品，成功实现了进口替代，业务覆盖全球二十多个国家和地区，近千家大型企业及地方政府。

Founded in 1999, Luculent Smart Technologies Co., Ltd. is the world leading industry Internet platform provider and Big Data provider. The company has cultivated the full business process and full lifecycle service system featuring "management consultancy + solutions and products + IT operation and maintenance service + IT supervision service" in the fields of "smart factory, smart park and smart city". Through two decades of endless efforts, the company has developed a number of high-tech products with independent intellectual property rights that replace import products, its business covers more than 20 countries and regions across the world, and provides services for over 1,000 enterprises directly under the Central Government, large state-owned enterprises, famous foreign companies and local governments like the five major power generation groups, CITIC Group, CGN Group, Conch Group, CNBM, CASC, JSGX, Xinhua News Agency, Huawei, GE and governments of Nanjing, Chifeng, Changsha, Yangzhou, Dalian, etc.



20

年行业经验
Years of industry experience



5

大行业领域
Major sectors



1000+

客户服务经验
Customers Service Experience



225

万设备
Million Sets of Equipment



1000+TB

的设备运营数据
Equipment Operation Data

成长故事 MILESTONE EVENTS



1999年11月17日
朗坤创立
Founding of Luculent



2001年

LiEMS (朗坤智能企业管理信息系统) 1.0版发布, 应用于扬州第二发电厂
Launch of LiEMS v1.0 (Luculent smart enterprise management information system) and application in Yangzhou No.2 Power Plant



2004年

金肯学院封闭14个月, LiEMS3.0开发成功
Successful development of LiEMS v3.0 after 14-month closed R&D in Jinken College



2008年

被AMT机构评为“中国EAM领域五强厂商”
Rated by AMT as 'China's Top Five Enterprises in EAM'

2012年

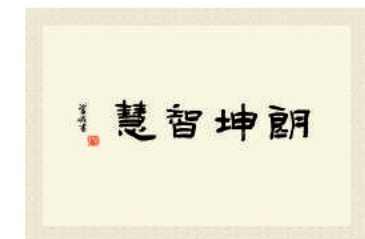
正式进军海外市场, 为厄瓜多尔科卡科多辛克雷电站提供专业服务
Official access to overseas market with professional service to CocaCodoSinclair hydropower station in Ecuador

2014年

组建上海凯盛朗坤, 承建国家发改委“互联网+”重大专项
Establishment of Ctiect-Luculent in Shanghai to contract key project of "Internet +" of National Development and Reform Commission (NDRC)

2016年

股份制改制, 更名为“朗坤智慧科技股份有限公司”
Reform of shareholding system and renamed as Luculent Smart Science and Technology Shareholdings Co., Ltd.



2015年

被中国质量协会授予第十五届全国质量奖(鼓励奖), 为中国唯一一家IT类入选企业。
Awarded by China Association for Quality (CAQ) as the 15th National Quality Prize (Prize of Honorary Mention), the unique IT enterprise winner in China

2017年

朗坤智慧园开园, 承办2017世界智能制造大会“数物融合”高峰论坛
opening of Luculent Smart Park and hosting the forum of "Digits-Things Integration" of 2017 World Intelligent Manufacturing Summit



2019年

朗坤成立20周年
20th anniversary of Luculent

2018年

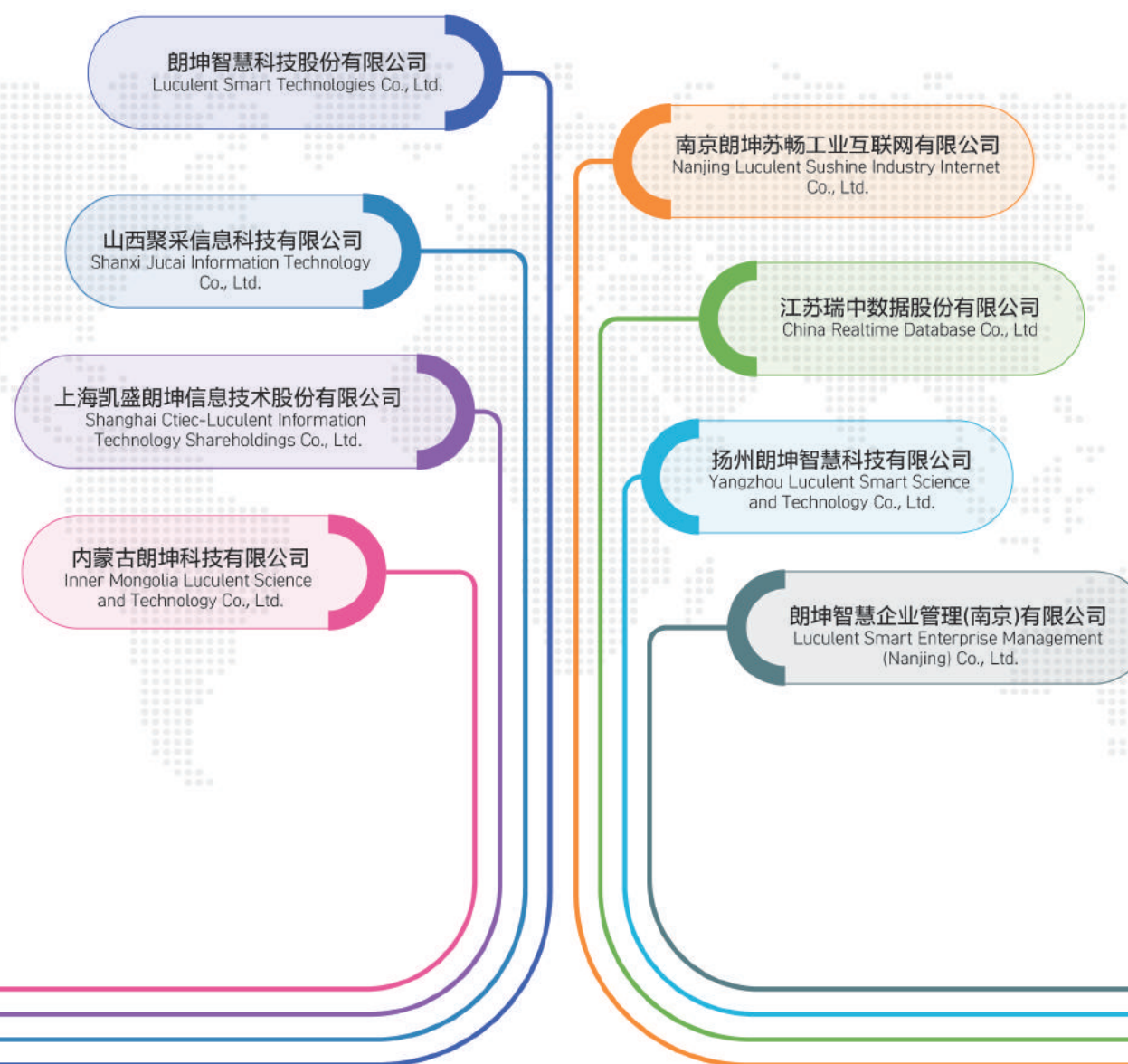
承办2018江苏互联网大会-数字经济高峰论坛, 发布苏畅工业互联网2.0
hosting Jiangsu Internet Conference 2018 - Summit Forum for Digital Economy and launch of Sushine Industry Internet 2.0

第五届京交会, 国务院副总理胡春华点赞朗坤: “做的非常好! 朗朗乾坤!”
At the 5th China Beijing International Fair for Trade in Services (CIFTIS), praised by Chinese Vice Premier Hu Chunhua, "Well done, Luculent!"



分子公司 SUBSIDIARIES

朗坤图谱
LUCULENT
SPECTRUM



合作伙伴

PARTNERS

朗坤一直以来坚持以客户为本，将客户满意度放在首位，以国际化的服务标准来规范服务行为，持续加强服务能力建设，通过服务信息化手段、制度化管理体系、常规化服务考核等强化服务管理，以优质高效的服务来保障客户的利益，为客户创造最大的价值。

Luculent always attaches the utmost importance to clients and their satisfaction, provides standard services as per international service criteria, keeps consolidating the service capacity building, enhances service management via service information technology, institutionalized management system and routine service appraisal, and protects clients' rights and interests by quality efficient service. Under the 4S (Sincerity, Speed, Special, Smile) service philosophy, the full lifecycle client service system has been established.

未来的公司终将消失，会被各种各样的虚拟企业平台所取代，我们每个个体也从公司的员工转变为可以在多家虚拟企业平台上拥有账号的独立主体，平台的账号就是公司、个人的签名就是公章。虚拟企业的基础是互联网平台，一个人要想发展，必须通过平台与人合作交易；同时任何一个平台的加入都需要资格的审核，所以要想加入虚拟企业也要具备一定的资质和能力。朗坤现在做的，就是开发出这样一个虚拟企业平台，让天下人在这个平台上得以自由创业，分享财富。

——武爱斌

One day in future, companies will finally disappear and be replaced by all kinds of virtual enterprise platforms. Each individual of us will turn from an employee to an independent identity that owns accounts on several virtual enterprise platforms. Such accounts are companies while personal signature equals to official stamp. The basis of virtual enterprise is the Internet. Each person that intends to develop business should work and trade with others via these platforms; meanwhile any platform must be subject to qualification review so any virtual enterprise should have certain qualification and competency. What Luculent is doing now is to develop such a virtual platform for enterprises so that all people can start up business on it and make fortune.

- Chairman Wu Aibin



在国家“一带一路”倡议下，越来越多的企业开始走出国门，参与国际建设市场竞争。朗坤赋能“一带一路”，构建信息化平台，为海外项目保驾护航，在行业内打造了一批精品工程和行业标杆：**朗坤投建营一体化管控平台**。

朗坤自主开发的投建营一体化管控平台，实现F（融资）、E（设计）、P（采购）、C（施工）、O（运营）、M（维护）各环节无缝融合，打破地域、时空限制，支持多国语言、能实现多组织、多项目的协调管理，通过投建营一体化管控平台，可显著提升运营效率，帮助国内企业更好地走向海外。目前，该平台已在全球十多个国家和地区的项目工程中得到推广应用。

Encouraged by the Belt and Road Initiative, more and more Chinese enterprises are going outside to the world and participating in the competition of international construction market. Luculent empowers "Belt and Road" by building information platforms and supporting overseas projects and has built up a number of excellent projects benchmarking the industry: **Luculent Management and Control Platform Integrating Investment, Construction and Operation**. The management and control platform integrating investment, construction and operation that was independently developed by Luculent realizes seamless integration of all aspects like F (financing), E (design), P (procurement), C (construction), O (operation) and M (maintenance) with no regional or spatial restriction. By supporting multiple languages and realizing coordinated management of multiple organization and projects, this integrated management and control platform can significantly uplift operation efficiency and help domestic enterprises going farther to the world. It has been so far applied and popularized among the projects in more than ten nations and regions all over the world.

国际版图

INTERNATIONAL LAYOUT



在中东，朗坤有**沙特利雅得5000t/d熟料生产线项目**和**阿联酋的ABMC 10000t/d项目**
Luculent operates the 5000t/d clinker production line in Riyadh, Saudi Arabia and ABMC 10000t/d project in UAE

在南美洲**厄瓜多尔**，朗坤有**科卡科多辛克雷CCS水电站项目**
Luculent runs CocaCodoSinclair (CCS) hydropower station.

在非洲**尼日尔共和国**，朗坤有**尼亚美100MW重油发电站项目**
Luculent operates the 100MW heavy-oil-fired power plant in Niamey

在**越南**，朗坤为中国在越投资规模最大的电力项目——**越南永新燃煤电厂一期项目**提供定制化的智慧解决方案
Luculent offers customized smart solutions to Vinh Tan 1 coal-fired power plant of Vietnam, the largest Chinese-funded power project in this country

在**菲律宾**，朗坤为**康塞普森燃煤电厂**建成一套业务完整、数据互通的运营管理信息系统
Luculent builds up a set of operation management information system of all-covering business and data connectivity for CFBC Concepcion Coal Fired Power Plant

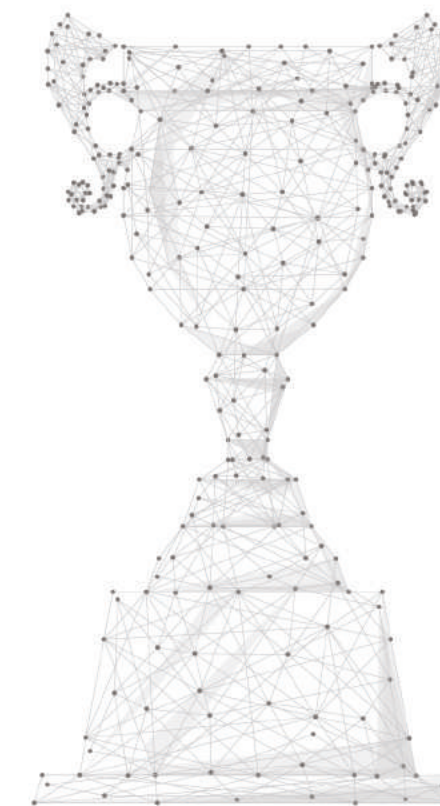
在**孟加拉**，与该国第一大电力集团公司**SUMMIT**签约，输出国内先进电力知识、管理思想和方法
Luculent contracts with the largest local power group SUMMIT to export advanced Chinese power knowledge, management philosophy and methodologies;

成绩与辉煌 ACHIEVEMENTS AND HONORS

- 重资产流程型行业工业4.0研发创新中心
- 江苏省软件企业技术中心
- 江苏省发电企业管控系统工程技术研究中心
- 北斗卫星应用研发创新中心
- 国家信息技术服务标准工作组ITSS全权成员单位
- 全国信标委SOA标准工作组全权成员单位
- 计算机信息系统集成企业资质
- 智慧城市产业联盟副理事长单位
- CMMI5级

- 中国软件和信息服务十大领军企业
- 中国信息化首选服务商
- 电力信息化优秀解决方案提供商
- 全国设备管理优秀单位
- 中国能源品牌价值杰出企业
- 最具成长性“互联网+”企业
- 2015年度中国品牌新锐奖
- 中国最具投资潜质创新企业

- Heavy Asset Process Industry 4.0 R&D Innovation Center
- Jiangsu Province Software Enterprise Technology Center
- Jiangsu Province Power Generation Enterprise Management and Control System Engineering Technology Research Center
- Beidou Satellite Application R&D Innovation Center
- Full authority member of National Information Technology Service Standards (ITSS) Workgroup
- Full authority member of National Information Technology Standards Committee (NITS) SOA Standard Workgroup
- Qualification of Computer Information System Integration Enterprise
- Vice Council Chairman of Smart City Industry Alliance
- CMMI 5 (Capability Maturity Model Integration)
- Ten Chinese Leading Enterprises of Software and Information Service
- Prioritized Service Provider of Information Technology in China
- Excellent Solution Provider of Electric Power Information Technology
- China's Model Unit of Equipment Management
- Chinese Enterprise with Top Value of Energy Brand
- Most Promising "Internet +" Enterprise
- China Best New Brand in 2015
- Chinese Innovation Enterprise with Most Investment Potentials





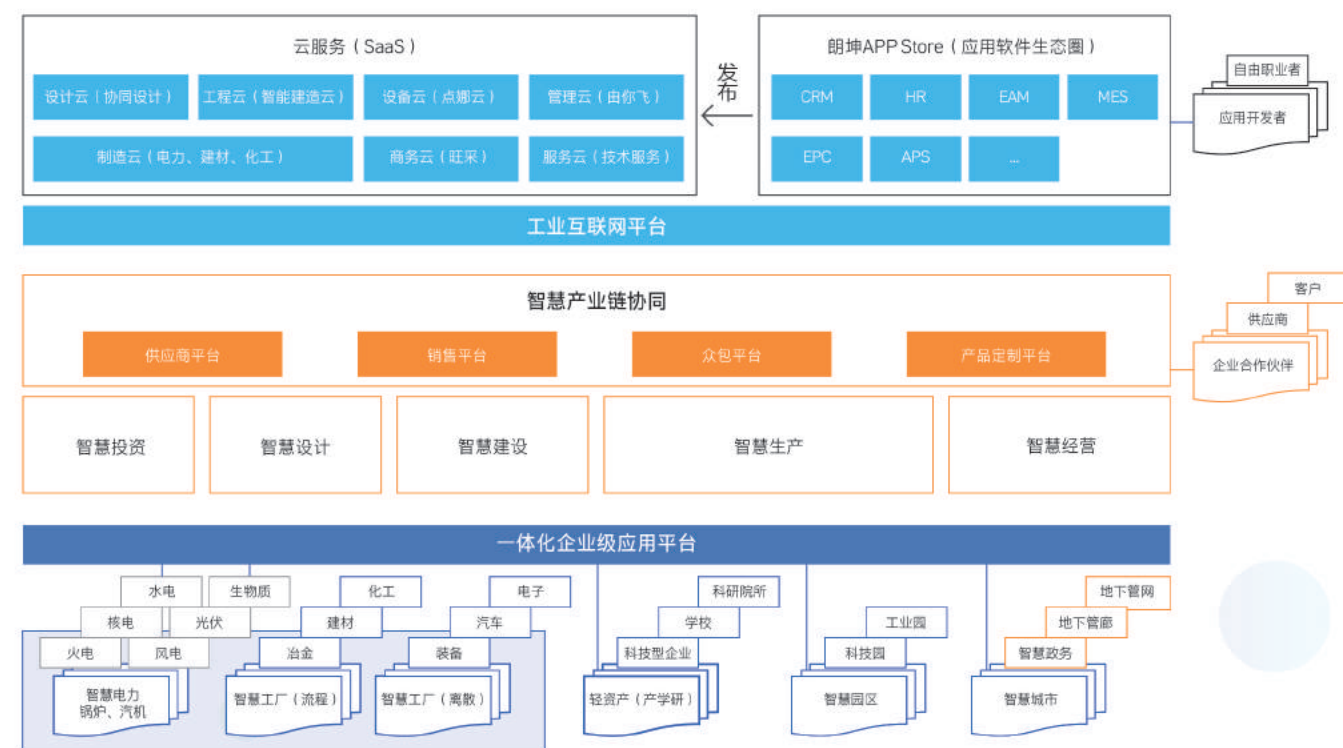
ACHIEVEMENTS AND HONORS



产品体系 PRODUCT SYSTEM

我们服务于智慧能源、智慧工厂（流程与离散工厂）、智慧科研院所、智慧园区和智慧城市，为其提供从投资、设计、建设和运维的全生命周期的管理的解决方案和产品，并应用新一代互联网技术，通过苏畅工业互联平台，提供智能化云服务，助力数字化转型发展。

We serve smart energy, smart factories (processes and discrete factories), smart research institutes, smart parks and smart cities, provide them with solutions and products for life cycle management from investment, design, construction and operation and maintenance, and apply the new generation of Internet technology through Suchang Industrial Interconnection Platform. Provide intelligent cloud services to help the development of digital transformation.



朗坤业务 LUCULENT BUSINESS

智慧工厂 SMART FACTORY

朗坤将信息技术与管理现代化有机结合，利用工厂工艺建模技术、数据采集技术、实时数据处理技术、管理和实时大数据融合技术等手段帮助客户构建智慧工厂。公司打造一体化信息平台，从设计到施工到运维都放到一个平台上构建，进行全生命周期的管理。通过全过程的监督、监控，避免出现信息不对等、信息孤岛现象，帮助企业优化资源配置，降低运维成本，实现全流程、全生命周期的精细化管理。

朗坤在电力行业耕耘20年，服务对象包括五大发电集团、江苏国信集团、粤电集团、晋能集团、京能集团、漳泽电力、协鑫集团、浙能集团等在内的近千家央企、大型国企、地方电力企业，有效的保障了7000多亿元国有资产安全生产、高效环保运行。目前，全国在运行的1000多家中大型（300MW机组以上）电厂中，有20%以上的电厂在运行着朗坤具有自主知识产权的LIEMS软件。

By organic combination of information technology and modernized management, Luculent makes use of technologies like plant process modeling, data collection, real-time data processing, management and real-time big data integration, etc. to help clients build smart factories. The company builds up integrated information platforms that realize full lifecycle management covering design, engineering and operation & maintenance. The whole-process monitoring and surveillance avoid asymmetry or isolated island of information, and help enterprises optimize resource allocation, reduce operation & maintenance cost and realize whole-process and full-lifecycle refined management.

Deeply engaged in electric power sector for two decades, Luculent has provided services for nearly 1,000 enterprises under the Central Government, large state-owned enterprises and local power companies including the five major power generation groups, JSGX, Guangdong Energy Group, Jinneng Group, Beijing Energy Holding, Shanxi Zhongze Power, GCL, Zhejiang Energy Group, etc. that effectively protect safe production and efficient and environment-friendly operation of over CNY700 billion state-owned assets. Among the present over 1,000 large- and medium-sized (300MW and above) power plants in service in China, more than 20% of them are using the LIEMS software with its intellectual property right owned by Luculent



国家电投集团蒙古能源有限公司通辽发电总厂 TONGLIAO POWER GENERATION GENERAL PLANT OF SPIC MONGOLIAN ENERGY CO., LTD.



发电厂生产过程控制管理系统（PMS）基于发电企业价值链优化的管控一体化结构模型，在发电运行管理、安全管理、项目管理、检修管理、财务管理、预算管理、成本管理方面构建安全生产过程的风险防控体系，实现了发电生产过程控制业务的闭环管理、全过程追溯以及与相关业务的有机融合。

The process management system (PMS) of power plant is a model of integrated structure of management and control based on the optimized value chain of power generation enterprise, which sets up a risk control and prevention system for safe production process covering the aspects like power generation operation management, safety management, project management, servicing management, financial management, budget management, cost management, etc. and realizes the close-loop management and whole-process traceability of control business of production process as well as its organic integration with other relevant services.

项目价值:

- 每年为企业节约成本500万元
- 设备可靠性提高了25%
- 库存成本降低了12%
- 员工工作效率提高了20%

Project value:

- It saves CNY5 million cost per annum for the enterprise
- Equipment reliability is uplifted by 25%
- Inventory cost is lowered by 12%
- Employee working efficiency increases by 20%



江苏省国信集团智慧能源云平台 SMART ENERGY CLOUD PLATFORM OF JSGX

作为江苏最大的能源集团，江苏省国信资产管理集团有限公司联手朗坤，共同打造智慧能源云平台。该平台为当前国内唯一一个从集团到下属31个电厂生产经营平台完整使用国产软件的平台，是一种成功的进口替代新模式，建设水平达到国内领先。

As the largest energy group in Jiangsu Province, Jiangsu Guoxin Asset Management Group Co., Ltd. worked with Luculent to jointly build a smart energy cloud platform. It is the unique production and operation platform in China on which all the group-level and its subsidiary 31 power plants use made-in-China software, which has successfully replaced import software and reached advanced level in China.

项目价值:

- 基于该平台，每天能产生约60亿条的大数据，与此同时，35万个测点数据、2699张完整重现电厂的实时画面，支撑国信集团实时监控所有电厂的各系统、设备的运行情况。
- 仅其旗下一个电厂，就实现以下直接经济效益：促进资金周转速度提高10%以上；减少库存资金占用达2%~3%；节约设备维护维修费用达3%~5%；延长设备平均无故障间隔时间达10%~15%，主要辅机检修周期时间延长达10%，预计每个电厂每年可降低成本200万元。

Project value:

- This platform can generate about 6 billion pieces of Big Data each day. Meanwhile, the data of 350,000 sensing points and 2,699 real-time images displaying the conditions of power plant support JSGX monitoring of operation of all systems and equipment of all its power plants in a real-time manner.
- Let's take any individual power plant as an example that it has realizes the following direct economic benefits: capital turnover speed increases by over 10%; the inventory capital proportion is reduced by 2%~3%; it saves 3%~5% equipment repairing and maintenance cost; the MTBF (mean time between failures) of equipment is prolonged by 10%~15% while the servicing cycle of main auxiliary machinery is extended by 10%. It is estimated that each power plant may save around CNY2 million each year.



中国原子能院管控一体化平台 INTEGRATED MANAGEMENT AND CONTROL PLATFORM OF CHINA INSTITUTE OF ATOMIC ENERGY



朗坤“中国实验快堆运维一体化平台”是唯一国产工业软件服务中国核电关键核心领域信息化项目，得到中国核工业集团公司领导和鉴定专家普遍认可。2018年12月17日，中国原子能科学研究院与朗坤正式签署了“研究堆运维一体化综合管控平台”合同，以一套软件管理多个核反应堆，标志着朗坤在核能信息化建设核心技术特别是多堆协同方面取得了重大突破。

Luculent's "China Experimental Fast Reactor Integrated Operation & Maintenance Platform" is the unique project serving China's nuclear information of critical core areas by homemade industry software that has been widely recognized by the leaders of China National Nuclear Corporation (CNNC) and experts of appraisal. On December 17, 2018, China Institute of Atomic Energy (CIAE) and Luculent officially signed the contract of "Research on Comprehensive Management and Control Platform of Integrated Operation & Maintenance of Reactor" that managed to control several nuclear reactors by one set of software, which marked significant breakthrough of Luculent in core technology of nuclear energy information construction especially the synergy of multi-reactors.



智慧园区 SMART PARK

朗坤致力于智能化研究，通过数据中心、公共信息平台、地理信息技术、物联网感知技术、工作流协同技术、移动应用技术的全面整合，实现园区建设、运维的立体可视化管理。朗坤智慧园云平台，融入“互联网+”模式，通过公共云或私有云的方式，将园区监督管理、公共服务业务和企业经营生产业务布置在云端，降低园区和企业信息化的设备投入和IT运维成本。

Dedicated to intelligence study, Luculent fully integrates data center, public information platform, geographic information technology, perception technology of Internet of Things, workflow synergy technology and mobile application technology that realize stereoscopic visualized management of construction and operation & maintenance of industry parks. Through public or private cloud mode, Luculent's smart park cloud platform combined with "Internet +" deploys park surveillance management, public service and enterprise operation and production on the cloud to cut down the cost of equipment investment and IT operation & maintenance of informationization of both park and enterprises.

朗坤智慧园 LUCULENT SMART PARK



2017年10月，公司正式入驻到位于南京江宁的智慧体验馆——朗坤智慧园。“智慧、绿色、共享”是园区的设计理念，在建设中将公司的产品、技术和智慧化解决方案融入到物理园区中，成为工业4.0产品体验中心、科普教育中心和工业旅游中心。园区以物联网、云计算、三维可视化、移动互联、大数据等现代信息技术为基础，通过感知化、互联化、平台化、一体化的手段，将楼宇自动化管理系统、通讯自动化系统、安全监控自动化系统以及园区共享服务平台等全面有机融合，建成集智能化、节能减排、绿色环保、资源共享产业园区。

In October 2017, the company officially moved to the smart experience site located in Jiangning District of Nanjing—Luculent Smart Park. Following the design concept of "Smart, Green and Sharing", the park physically integrated the company's products, technologies and smart solutions and became an industry 4.0 product experience center, science education center and industry tourism center. Based on the modern information technologies like Internet of Things, Cloud Computing, 3D visualization, mobile Internet, Big Data, etc. and thanks to the perceptive, interconnected, platform-oriented and integrated approaches, the park fully and systematically combines automated building management system, automated communication system, automated safety monitoring system and park sharing service platform, etc. and turns out to be a novel industry park featuring intelligence, energy conservation and emission reduction, green, environmental protection and resource sharing.



德基智慧楼宇运营管控云平台 MANAGEMENT AND CONTROL CLOUD PLATFORM OF DEJI SMART BUILDING OPERATION

朗坤针对德基广场的运维管理痛点和需求，打造智慧楼宇综合运营管控云平台。平台以楼宇管控信息化为重点，基于系统集成平台、GIS二三维平台、一体化开发平台、大数据分析平台及云服务平台，集成德基已建设的弱电系统、消防监控、客流分析、燃气报警及远程抄表等系统，整合数字德基、监控管理、设备资产管理、装修工程项目管理、物业管理、能耗监管及消防管理等应用系统，打造一体化智慧楼宇综合运营管控平台。

通过智慧楼宇综合运营管控平台的建设，打通了德基各个系统之间的数据流与业务流，使原来零碎的、不可视的管理变为一体化的、可视化的管控，提升了运维效率的同时也降低了运营成本。另外，通过功能应用的全面移动化，在一个手机上即可实现对德基广场的一体化智慧管控，提高了商场的整体管理水平和效率。

Pertinent to the bottlenecks and demand of operation and maintenance management of Deji Plaza, Luculent builds up the comprehensive operation management and control cloud platform of smart building. Concentrating on informationized management and control of building and based upon the system integration platform, GIS 2D and 3D platform, integrated development platform, big data analysis platform and cloud service platform, this new platform integrates Deji's existing systems like weak electricity system, fire protection monitoring, visitor flow analysis, fuel gas alarm and remote metering, etc. and involves the application systems like Digital Deji, monitoring management, equipment and asset management, project management of decoration engineering, property management, energy consumption supervision, fire protection management, etc. so that an integrated smart building comprehensive operation management and control platform has been successfully developed.

The smart building comprehensive operation management and control platform connects the data flow and business flow of previously separate systems of Deji Plaza and turns the original fragmented and invisible management into integrated and visualized management and control, thus improving operation & maintenance efficiency and reducing operational cost. In addition, by mobile transplantation of functions and applications, one mobile phone can finish integrated smart management and control of the whole Deji Plaza that improves the overall management level and efficiency of this big shopping mall.



智慧城市 SMART CITY

朗坤从城市发展的角度综合考虑智慧城市建设对民生、政务和产业的促进作用，广泛应用物联网、云计算、大数据等新一代信息技术，打破智慧城市建设过程中存在各单项规划自成体系、内容冲突、缺乏协调等困境，实现多规融合，打造城市规划建设一体化运营创新模式。

From the perspective of urban development, Luculent takes general consideration of the supportive role of smart city construction to people's livelihood, administrative affairs and industry, and thus extensively applies new-generation information technologies like Internet of Things, Cloud Computing, Big Data, etc. that break the bottlenecks of isolated single planning, content conflict, lack of coordination, etc. in smart city construction, realize multiple planning integration, and figure out the innovative pattern of integrated operation of urban planning and construction.

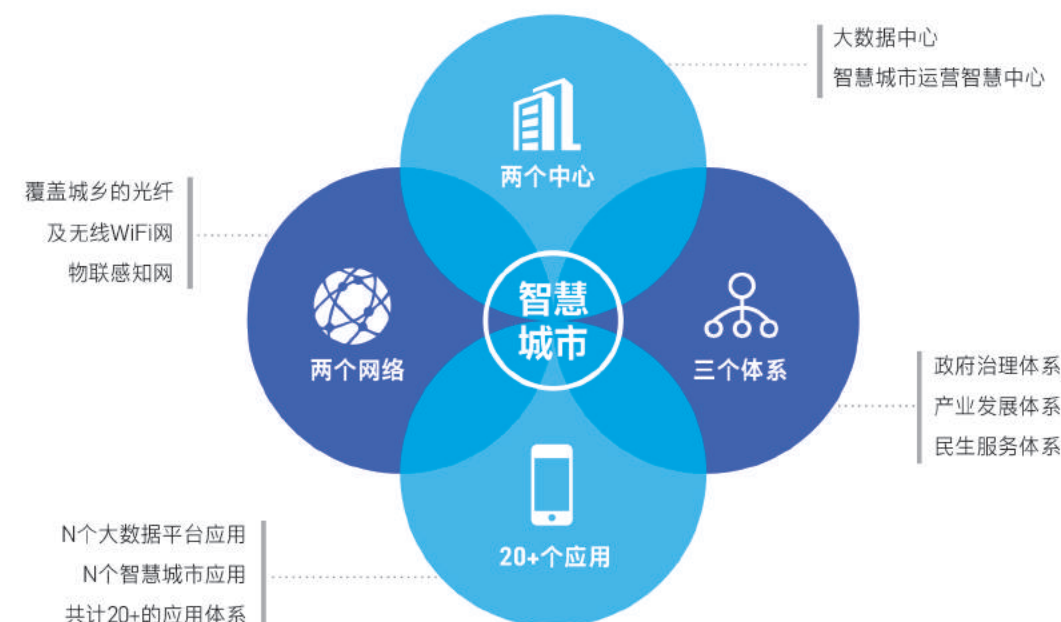


智慧红山

SMART HONGSHAN

两个网络、两个中心、三个体系、20+个应用

TWO NETWORKS, TWO CENTERS, THREE SYSTEMS AND 20 PLUS APPLICATIONS



朗坤和赤峰市政府共同推进智慧城市典型示范工程——“智慧红山”，该项目围绕“两网两中心三体系N个应用”，通过整合交通、社区、市政、城市管理、市场监管、应急管理、安全生产、宏观经济运行等政府综合监管和指挥调度职能，集中物流、旅游、供销等经济综合调度功能，形成智慧政务、智慧民生、智慧产业三大模块，实现智慧城市综合管理体系的全局指挥。

Luculent and Chifeng Municipal Government jointly promoted the smart city demonstration project - "Smart Hongshan". Focusing on "Two Networks, Two Centers, Three Systems and numbers of Applications", the project integrates the government functionalities of comprehensive supervision, commanding and dispatching such as traffic, community, municipal project, urban management, market supervision, emergency management, safe production, macro-economy operation, etc. and strengthened the comprehensive economic dispatching functions of logistics, tourism, supply and sale, etc. to form three major modules of smart administrative affairs, smart livelihood and smart industry, and realize overall command of comprehensive management system of a smart city.



两张网络: 覆盖城乡的光纤
无线WiFi物联网感知网

两个中心: 大数据中心
城市运营指挥中心

三个体系: 政府治理体系
产业发展体系
民生服务体系

N个应用: N智慧城市应用

2018年7月间，红山区遭遇暴雨天气，通过“智慧红山”大数据和智慧城市平台的联动作用，实现了气象局、市政、公安、城管、96345便民热线等职能部门综合调度，积极应对暴雨天气，保障了市民的生命财产安全。

“智慧红山”通过资源的整合、数据的聚合、职能的融合，构建了善知善治的智慧脑，为城市赋智；打通了“放管服”的经脉，为百姓赋利；打造了转型升级的助推器，为企业赋能。截至目前，“智慧红山”项目先后荣获“2016中国智慧城市优秀解决方案”“2017中国新型智慧城市优秀创新案例奖”“2017中国新型智慧城市优秀惠民案例奖”“2018中国双创好项目”等荣誉。

In July 2018, Hongshan District incurred heavy storm. Through interaction between Big Data and smart city platform, "Smart Hongshan" achieved comprehensive dispatching of relevant functional departments like meteorological bureau, municipal administration, public security, urban management, 96345 community service hotline, etc. to proactively respond to the severe weather and safeguard people's life and property.

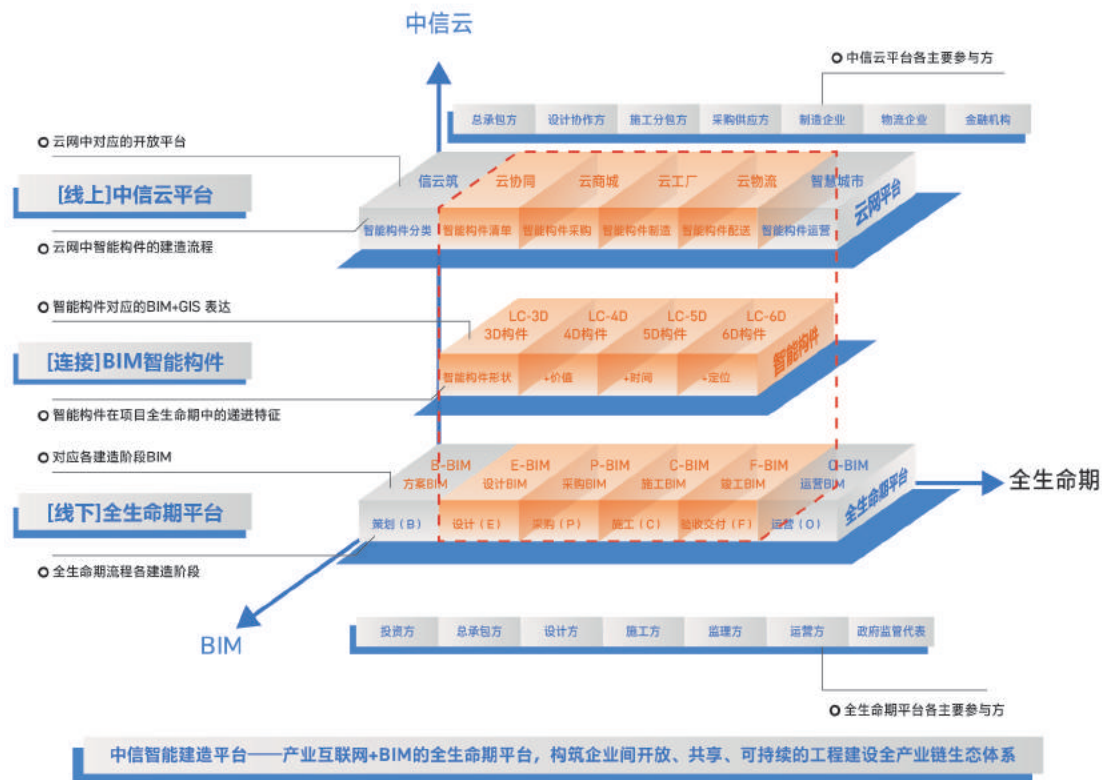
By integration of resources, data and functionalities, "Smart Hongshan" creates a smart brain of city for perception and governance, breaks the barriers of "deregulation, management and service" with public welfare, and empowers enterprises to boost their transformation and upgrading. "Smart Hongshan" project has so far won the honors and awards of "Excellent Solution of Chinese Smart City 2016", "Excellent Innovation Case of Chinese Novel Smart City 2017", "Excellent Public Welfare Case of Chinese Novel Smart City 2017", "China Excellent Project of Mass Entrepreneurship and Innovation 2018", etc.

其他典型案例

OTHER TYPICAL CASES

中信智能建造云平台

CITIC SMART CONSTRUCTION CLOUD PLATFORM



中信智能建造平台构架图

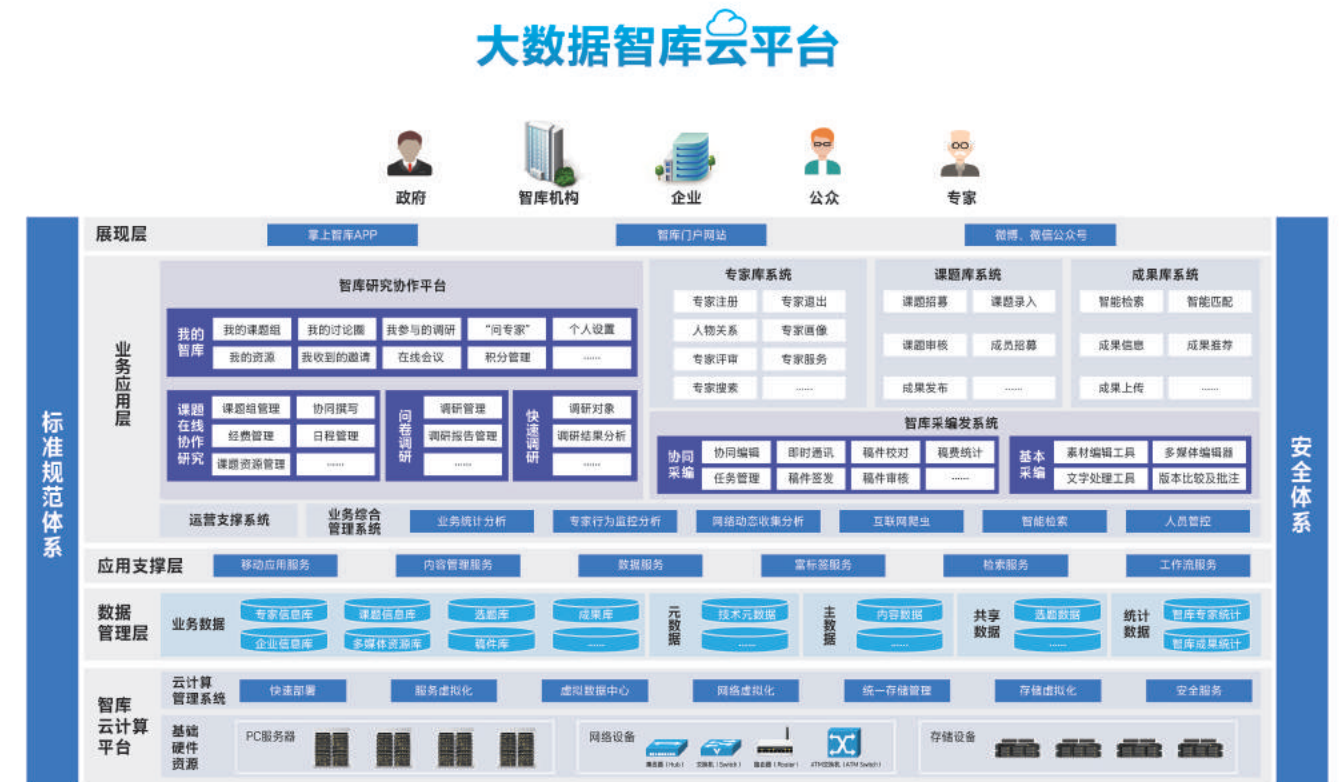
朗坤为中信集团重点打造的“中信智能建造云平台”，以建筑业为突破口，用“互联网+EPC+BIM”为建造业内的设计院、工程公司、投资方构建一个开放共享的平台，推动业内大数据资源的利用和价值挖掘。朗坤以成熟的EPC平台和招采系统帮助中信实现了智能建造云平台1.0版的搭建，被中信集团互联网转型小组比喻“一棵可以看到未来的大树”，在业内引起轰动。

Luculent helps CITIC Group build "CITIC Smart Construction Cloud Platform", which is an open and sharing platform based on "Internet + EPC + BIM" for the design institutes, engineering companies and investors of construction industry to promote the utilization and value creation of industrial big data resource. By mature EPC platform and bidding and procurement system, Luculent helps CITIC establish the smart construction cloud platform v1.0 that is praised by the Internet transformation panel of CITIC Group as "A Tree Showing the Future" and is a sensational event of the construction industry.



新华社“瞭望”智库

"OUTLOOK" THINKTANK OF XINHUA NEWS AGENCY



朗坤与新华社联手打造“瞭望”智库，融合国际先进的智库建设经验和智库运营管理理念，运用云计算、大数据、移动互联网等先进技术手段，形成集全球智库情报信息收集、清洗、加工、分析、生产、报送、发布、交互、交易等服务为一体的综合性智力服务与运营平台。产品主要适用于官方智库、高校智库和民间智库，目前已应用于新华社瞭望智库，是目前国内最优秀的大数据智库平台产品。

Luculent works with Xinhua News Agency to build the "Outlook" thinktank that integrates international advanced thinktank building experience and operation management philosophy, takes advantage of advanced technologies like Cloud Computing, Big Data, mobile Internet, etc., and forms a comprehensive intelligence service and operation platform involving collection, sorting, processing, analysis, production, reporting, publication, exchange, transaction, etc. of global thinktank information. The product is mainly applicable to official, academic and civil thinktanks and now has been applied to the Outlook Thinktank of Xinhua News Agency, which is the best-of-all big data thinktank platform in China.

朗坤设备标识

LUCULENT EQUIPMENT IDENTIFICATION



国标《电厂标识系统编码标准（修订）》与国际标准衔接研讨会

通过唯一的设备标识（KKS），对设备基本信息、运维信息、资产数据、技术标准、备品备件、成本等数据的采集、分析、深度管理，建立电力企业（或集团）设备管理大数据中心，数据共享，实行“精细化管理”+“集中管控”，提高效率、降低成本。朗坤作为国家标准GB 50549《电厂标识系统编码标准》的参与方，对设备标识的规划、编制、应用、维护有着深刻的认知，并且具备成熟的方案，已完成国内1000余家电站设备标识的建设，为其信息化、智慧化进程提供数据保障。

By the unique equipment identification (KKS), Luculent conducts collection, analysis and in-depth management of equipment data such as basic information, operation & maintenance information, asset data, technical standards, spares and stores, cost, etc., for which it establishes an equipment management Big Data center of electric power enterprises (or groups) with data sharing and "refined management + centralized management and control" for higher efficiency and lower cost. As the participant of national standard GB 50549 Coding Standard for Power Plant Identification System, Luculent has profound perception of planning, preparation, application and maintenance of equipment identification as well as mature solutions. The company has completed equipment identification for more than 1,000 domestic power stations that offer data guarantee to their information technology and intelligence evolvement process.



由你飞——协会版小程序

UNIFY+ - ASSOCIATION EDITION MINI PROGRAM



朗坤打造的由你飞协会版小程序是市面上唯一一款为协会量身订做的产品。立足协会，面向会员，打造智慧协会创新运营新载体。有效提升协会内部管理效率，显著提升协会服务能力，快速丰富协会宣传渠道，轻松帮助会员资源连接。

The Unify+ mini program for association developed by Luculent is the only presently available product customized for industry association, which is a new form of innovative operation of smart association for members. It can effectively uplift the association's efficiency of internal management, significantly improve its service capability, quickly diversify the publicity channels and conveniently offer resource access to members.

趋势与未来 TREND AND FUTURE

工业互联网简介 BRIEF INTRODUCTION TO INDUSTRIAL INTERNET

朗坤依托在工业领域20年的技术探索与储备、行业知识积淀、1000多家项目的建设经验以及研发与技术团队的建设理念，全力打造朗坤智能云平台——朗坤苏畅工业互联网平台，以“互联网+”应用为重点方向，致力于为资产密集型企业提供涵盖设备自主可控、可靠运行、安全生产、精益管理、设备优化、远程诊断、全生命周期管理的跨行业跨领域工业互联网平台的建设与运营。

平台将行业知识、行业管理经验与行业最佳实践融合，通过两化深度融合、智能制造为抓手，真正汇集在技术研发、产品及服务、项目经验、客户资源方面的四大优势，服务电力行业、石化行业、建材行业、煤炭行业、有色金属行业、军工行业、电子设备行业、船舶行业等实现工业云平台的转型。

Lang Kun relies on 20 years of technological exploration and storage in the industrial field, knowledge accumulation in the industry, construction experience of more than 1000 projects, and the construction concept of R & D and technology team. We strive to create an intelligent cloud platform of Lang Kun, the industrial platform of Lang Kun Su Chang, with the focus on "Internet +", and focus on asset intensive. E-enterprises provide the construction and operation of cross-industry and cross-domain industrial Internet platform covering equipment self-control, reliable operation, safety production, lean management, equipment optimization, remote diagnosis and life cycle management.

The platform integrates industry knowledge, industry management experience and industry best practices. Through deep integration of modernization and intelligent manufacturing, the platform truly gathers four advantages in technology research and development, products and services, project experience and customer resources, and serves the power industry, petrochemical industry, building materials industry, coal industry and non-ferrous gold industry. It belongs to industry, military industry, electronic equipment industry, shipbuilding industry, etc. to realize the transformation of industrial cloud platform.

斩获了国家工业互联网各类重要奖项

IT HAS WON ALMOST ALL IMPORTANT HONORS AND PRIZES OF NATIONAL INDUSTRY INTERNET

- 信通院颁发的平台功能性能四星级评测证书
- 入选国家工业互联网平台测试床
- 入选工信部颁发的2018年度工业互联网APP优秀解决方案名单
- 受邀参与国家工业互联网相关技术标准的制定，并通过权威评测
- 受邀参与国家时序数据库标准的制定
- 参与工业大数据白皮书的编写
- 参与工业云服务标准的制定
- 工信部DCA第一批7家时序数据库产品评测
- 在江苏省内具有较高的品牌影响力
- 入选江苏省工业互联网服务资源池第一批名单
- 入选2018年江苏省工业互联网发展示范企业（平台类）
- 江苏省内唯一一家同时获得优秀测试床和工业APP案例的厂商
- Four-star Certificate of Platform Function and Performance Testing issued by China Academy of Information and Communications Technology (CAICT)
- Selected by national industry Internet platform testbed
- Involved in the list of Industry Internet APP Excellent Solutions 2018 issued by Ministry of Industry and Information Technology (MIIT)
- Invited to join the development of technical standards relating to national industry Internet, which had passed authoritative assessment and testing
- Invited to join the development of standards for national time sequence database
- Invited to join the development of industry Big Data whitepaper book
- Invited to join the development of standards for industry cloud service
- Among the testing of the first batch of 7 time sequence database products of MIIT DCA (Data Center Alliance)
- Considerable brand presence in Jiangsu Province
- Among the first batch list of Jiangsu Province industry Internet service resource pool
- Jiangsu Province Industry Internet Development Demonstration Enterprise (platform) 2018
- The only winner of both awards of excellent testbed and industry APP case in Jiangsu Province



苏畅工业互联网平台业务能力总览图

OVERVIEW OF BUSINESS CAPABILITIES OF SUSHINE INDUSTRY INTERNET PLATFORM



- 平台协议库内含 100 多种采集协议, 32 种主流标准协议, 可实现 95% 场景的即插即用式设备接入。
- The platform protocol library contains more than 100 acquisition protocols and 32 mainstream standard protocols, which can access 95% of the Plug and Play devices.
- 自主研发的工业级时序数据库 TrendDB, 拥有 PB 级工业设备数据存储应用实践, 支持分布式部署, 毫秒级精度、百万级并发处理能力, 性能指标居行业领先地位。
- TrendDB, an independently developed industrial-level sequential database, has PB-level industrial equipment data storage application practice, supports distributed deployment, millisecond accuracy, millions of concurrent processing capabilities, and occupies the leading position in the industry in performance indicators.
- 提供丰富的工业 APP 应用, 包含设备管理、实时监控、采购管理等基础性共性工业 APP 和设备预测性维护、健康评价、能耗优化等智慧化工业 APP。
- Provide a wealth of industrial APP applications, including equipment management, real-time monitoring, procurement management and other basic common industrial APP and equipment predictive maintenance, health assessment, energy consumption optimization and other intelligent industrial APP.

连接租户、大数据科学家、开发者和机理专家的技术生态

TECHNOLOGY ECOLOGY CONNECTING TENANTS,
BIG DATA SCIENTISTS, DEVELOPERS AND MECHANISM EXPERTS



面向工业场景的工业APP INDUSTRIAL-SCENARIO-ORIENTED INDUSTRY APP

工业APP总览 >> Overview of industry APP

<p>设备管理类 Equipment management</p> <ul style="list-style-type: none"> ● 设备管理工业 APP Equipment management industry APP ● 实时监视工业 APP Real-time monitoring industry APP ● 设备画像工业 APP Equipment imaging industry APP ● 报警管理工业 APP Alarm management industry APP 	<p>经营优化类 Operation optimization</p> <ul style="list-style-type: none"> ● 工艺优化工业 APP Technique optimization industry APP ● 预算管理工业 APP Budget management industry APP ● 指标管理工业 APP Indicator management industry APP ● 计划统计工业 APP Plan statistics industry APP 	<p>生产过程管控类 Production process management and control</p> <ul style="list-style-type: none"> ● 能耗管理工业 APP Consumption management industry APP ● 工况管理工业 APP Working condition management industry APP ● 参数报警工业 APP Parameter alarm industry APP ● 启停统计工业 APP Start/stop statistics industry APP 	<p>生产运营类 Production operation</p> <ul style="list-style-type: none"> ● 巡检检管理工业 APP Petrol inspection management industry APP ● 采购管理工业 APP Procurement management industry APP ● 工艺管理工业 APP Technique management industry APP ● 预维护管理工业 APP Pre-maintenance management industry APP
<p>安全管理类 Safety management</p> <ul style="list-style-type: none"> ● 智能安防工业 APP Intelligent security industry APP ● 智慧工地工业 APP Smart construction site industry APP ● 事故管理工业 APP Incident management industry APP ● 危险源管理工业 APP Hazardous source management industry APP 	<p>故障诊断类 Failure diagnosis</p> <ul style="list-style-type: none"> ● 设备故障预测和健康管理工业 APP Equipment failure forecast and health management industry APP ● 转动设备故障诊断工业 APP Rotating equipment failure diagnosis industry APP ● 设备特征参数预测工业 APP Equipment specification parameters forecast industry APP ● 设备润滑故障分析工业 APP Equipment lubrication failure analysis industry APP 	<p>创新模式类 Innovative modes</p> <ul style="list-style-type: none"> ● 旺采网 5ibid.net ● 由你飞 Unify+ ● 医师慧 ysh158.com ● e企汇 yubid.cn 	<p>建模工具类 Modeling tools</p> <ul style="list-style-type: none"> ● 组态建模工业 APP Configuration modeling industry APP ● 工厂建模工业 APP Plant modeling industry APP ● AI 建模工业 APP AI modeling industry APP ● 流程建模工业 APP Process modeling industry APP

朗坤文化 LUCULENT CULTURE

经过二十年的传承与发展，朗坤已形成中华文化、时代特征、产业特点于一体的，开放、包容的企业文化体系：
Through twenty years of inheritance and development, Luculent has formed an open and inclusive corporate culture system combining Chinese culture, time features and industry characteristics by:

确立了“自律、拼搏、透明、公平”的朗坤企业文化核心价值
Establishing Luculent's core value of corporate culture of "Self-discipline, Hard Work, Transparency and Fairness"
明确了“坚持核心技术自主创新”的朗坤企业文化主旋律
Clarifying Luculent's main theme of corporate culture of "Persist in Core Technology and Independent Innovation"
秉承了“连接、共享、融合、生态”的朗坤经营理念
Carrying forward Luculent's business philosophy of "Connectivity, Sharing, Inclusiveness and Ecology"

精耕深耕做营销	Marketing in an intensive and in-depth manner
脚踏实地做项目	Developing projects in a pragmatic and concrete manner
工匠精神做产品	Making products under craftsman spirit
砥砺前行做研发	Research and development in an arduous and innovative way
用心专业做运营	Careful and professional operation
客户为本做服务	Client-utmost service
信任·当真·执行	Trust · honesty · implementation





党建引领 文化为魂

LEADERSHIP OF CCP AND FOCUS ON CULTURE

不忘初心
砥砺前行



实施红色领航工程，
加强组织建设

Execute the CCP leadership
assignment to reinforce
organizational building



实施文化建设工程，
提升发展软实力

Execute culture construction to
strengthen soft power of
development



实施人才强企工程，
建设高素质人才队伍

Execute the talent plan for a
stronger enterprise to attract
more top talents



实施“互联网+”工程，
打造朗坤智慧党建系统

Execute "Internet +" project to
build our own smart party
building system



智慧园区文化之旅

A CULTURAL TOUR IN SMART PARK

朗坤责任 LUCULENT RESPONSIBILITIES

朗坤以诚信、奉献的核心价值理念，构建独特的“企业社会责任模型”。以可持续发展的理念融入管理运营中，把责任能力建设融入发展中，用实际行动回报社会，造福社会。

Under the trustworthy and devoted core value, Luculent has set up a unique "Model of Corporate Social Responsibility" that integrates sustainability concept into routine management and operation, involves responsibility capacity building into corporate development and gives more return and welfare back to the society.

经营责任：诚信纳税创造就业

荣获了AA级纳税级单位、江苏省重合同守信用企业、南京市重合同守信用企业等荣誉。

近几年校园招聘活动覆盖全国数十所高校，发布了数百个职位，招聘大学生近千人。

Operation responsibility: honest tax payment and more employment opportunities

Luculent is rated as AA Grade Taxpaying Unit, Jiangsu Province Credible and Trustworthy Enterprise, Nanjing Credible and Trustworthy Enterprise, etc.

The campus recruitments over the past several years covered tens of universities in China that offered hundreds of job positions and recruited close to 1,000 university graduates.

关怀责任：以人为本关爱员工

当员工遇到困难的时候，公司会积极为员工提供物质和精神的帮助与支持。

组织多种多样的员工活动，丰富员工业余生活。

Humanistic care responsibility: people-foremost and care of employees

Once an employee encounters difficult situation, the company actively offers both physical and mental assistance and support.

Luculent organizes diversified employee activities to enrich their life in spare time.



武汉理工大学社会奖学金签约仪式



朗坤“关注公益，爱心飞扬”活动



Harmonious Ecology, Low Carbon Environment Protection

慈善责任: 精准扶贫关爱教育

实施精准扶贫, 履行社会责任, 定期走访、慰问社区贫困家庭、残疾人家庭、孤寡老人。在多所学校设立专项教育基金, 资助贫困学子顺利完成学业。同时, 高层领导定期为学子免费授课, 分享创业心得。

Charity responsibility: targeted poverty alleviation and charitable education

Luculent follows the central policy of targeted poverty alleviation and proactively fulfills the social responsibility to periodically visit and help the poverty-stricken families, disabled people and elderly people of no family in community. Luculent sets up special education funds in many schools to provide poor students with financial assistance. In addition, the company's executives regularly hold free lectures and lessons for students to share entrepreneur experience.

环境责任: 和谐生态低碳环保

在“去产能、去库存”的国家方针下, 帮助客户提高运营效率、提升管理水平。

Environmental responsibility: harmonious ecology, low-carbon and environmental protection

Under the national policy of "Reduce Excessive Capacity and Inventory", Luculent helps clients improve operation efficiency and management competency.