

實踐多元化一帶一路

LSCM Summit 2018

Simon Wong CEO LSCM R&D Centre



實踐多元化一帶一路

What Can We Do?

- **1. Better Equip Logistics Industries**
- 2. Big Data and AI Smart
- 3. Improving Connectivity



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Warehouse AGVs







Multi-AGV Coordination

One-man Pick-and-Place Station

Under Commissioning



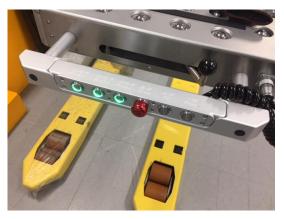
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Warehouse Smart Lifter





Force Sensing End-Effector



Multi-axis Controller



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Robot Sensing

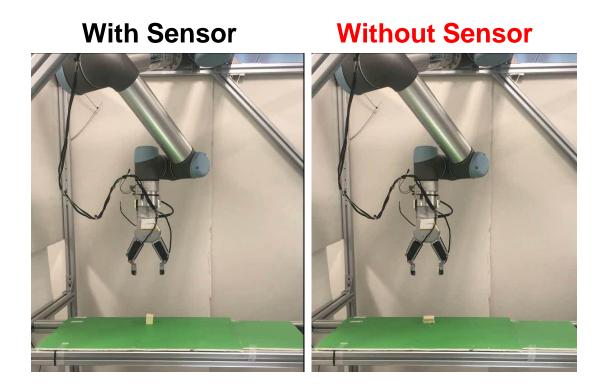


Robot Sensor

Two important features for next generation intelligent robots:

- Skin-like sensing
- Temperature sensing







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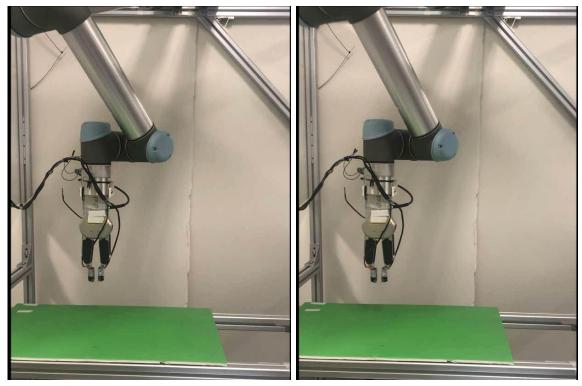
Robot Whisker

- Open-loop optical fiber
- Flexible for installing on different robot arms
- Adjustable sensitivity



With Sensor

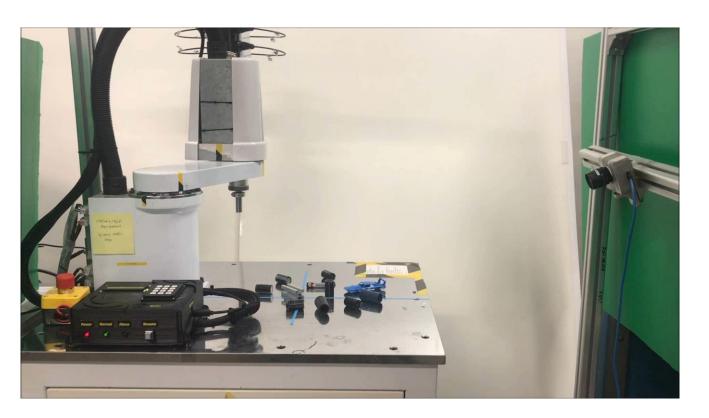
Without Sensor





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Robot Vision



Dynamic Vision Sensing



Moving-hand Detection for Safety Purpose



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Robot and Sensor Integration for Repetitive Tasks

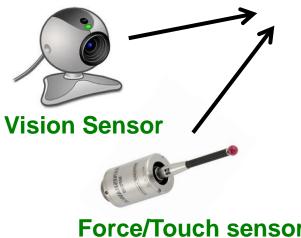


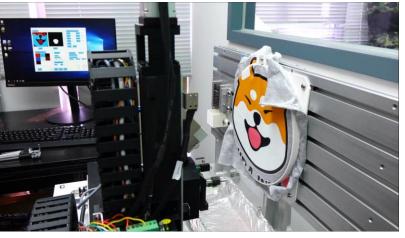
Under Commissioning













Context-aware Movement Analytics with AI and Vision

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WRONG POSTURE DEMO!



Activity Tracking and Posture Analysis



Large-scale Site Supervision with Vision and AI Analytics



(x=1680, v=205) ~ R:126 G:107 B:92







Future Warehouse







實踐多元化一

一帶

(**杰**管局) 等合作,成功透過描錄鏡頭發展各面域的手推準備 應·再來做個人員發展的整合。該他們讓配手被拿至估應不)

由中大系统工作科工程管理师 法以下,系统合数政策条件部门 系、香港物的发展集团的制度设。 进入自向子演奏来除去: 古敏信机

除・高見放客用泉

估) · 我们理人们用途手续形动所 常识量-

等行车港生产的产业中的专

44416

AI Approach for Asset Management







新新会中心(1.5CM 保険中心)ルール0 知時、動産な色質等、営業人 我的PMII或你等它能够争会心,求一但只是发展的学家,我们却能了她一种**建市场会考虑得得很深,能**会人工和能能像有用种情况老,就算是现乎她 1中大樂世

员工手续着他包留? 无限(计约束)转移 英植复身等合作 中大乐坊工程典工程装得要乐能 建的局势的情况性就得能够而在 截省局:可省稳许人手 而就系统地址在行李逻辑大型内 按你选辑说,因来或定要出作用 何,今次最近研修需要被害,可以 研究期除成局理器委员、重估的 大大能含给在于指来将是所需的人 前10.相以特别好,*现今人工智能,能,给封服务,好往知觉不高效。 法帮助你指抓住你,想得说道了她一点,以你还没有你说你们的算法呢 计子数字段分词法的自动转转一次 力,将留进了他穿着过来在这字符 第一百代进行的资格规模、单方 化定定外收不合成的分子加速度器 建油石和合分的形式 法未成不良 业局的专取上,存款证法等的用 非确实上于问题的 #4. 现存算用 法照察性可测察,没有能力非常能 再往有事故着

沒有行李重的泊重位則顯示為結

9.2017 Tue | skypost.hl

:李 攝影:洗燈倫

中大開發的

【投入不同業界

HONG KONG INTERNATIONAL AIRPORT

香港 國際機場

Video-based Trolley Management System for Better **Customer Service Hong Kong LSCM Technology**





Vehicle Type Detection

Actions in the Belt and Road Initiative with Innovation and Technology 貢獻大灣品創新科研

Al and Vision Approach for Smart Traffic Control

Camera

Detector

Tam Tuk Reservoir

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Traffic Data 燒烤區 from Multiple Video Analytics

Real-time Traffic Control

Queue Length Monitoring

Signal Control **Commands to Traffic Lights**

大運篤水塘水堆

Tai Tam Tuk **Reservoir Dam**

3826 With Smar **Red Traffic Signal**

Without Smart Control

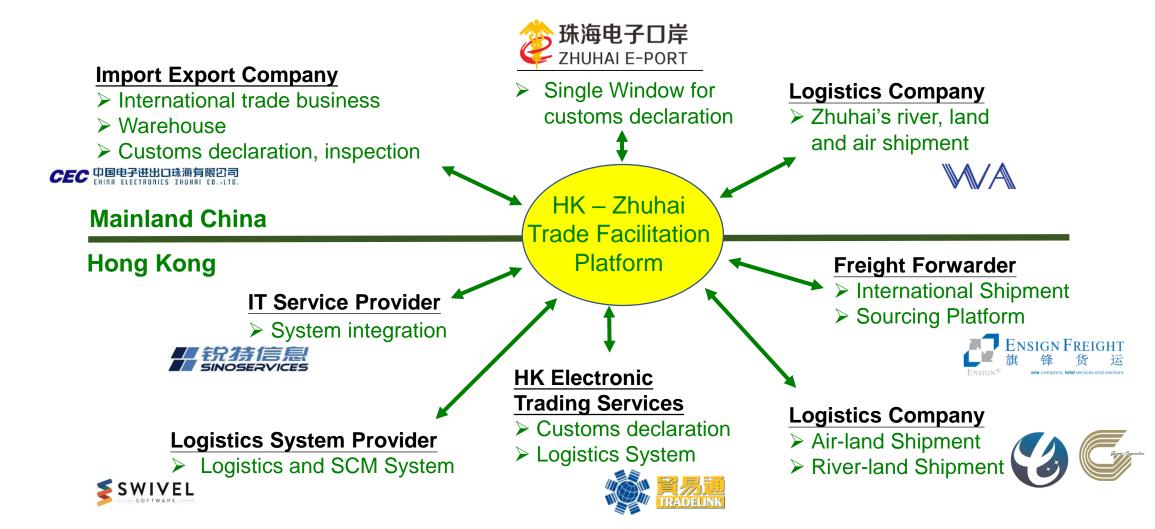
Video courtesy of 有錢買靚車但買唔到技術 Tesla 塞爆大選 水塘, 2017.05.08, https://youtu.be/FvASBd7xvRA

Improving Connectivity

HK-Zhuhai Trade Facilitation Platform (eTFP)



Scalable Service Platform: Enrich the trade eco-system with value-add services





實踐多元化一帶一將

Core Features

✓ E-Port Declaration Form
 Validation Secured Channel

✓ Status Enquiry

✓ E-Port News

- ✓ Intelligent Search
- ✓ Domain Specific Translations
- ✓ HS Code Details
 - Tax Rate
 - Permit Requirement
 - Success Rate Analysis





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AI Multi-national Form Translations

One Sir	ngle Ca	<u> </u>					HK Trade	Declaration	Da	ta File 🔤	ma" xmlns:xsi="	В	ill of L	_ading
Shipper (發貨人) ABC (HK) LTD. 999 TSUEN WAN, HK TEL:24991234 member@lscm.hk Consignee (收貨人)		+	物济	流有	限公令		HẢI QUAN VIỆI Cục Hải quan:			i hàng hóa i port Dec	NHẬP KHẦU aration Fo		H	Q/2015/NK
XYZ貿易有限公司 Notify party(通知方)		地 線	XX Logistics Co Ltd 地址: 長沙瑞道天賀襄場1111室 聯絡人:周先生 Tel: 22994321				Chi cục Hải quan đăng ký tờ khai: Chi cục Hải quan cửa khẩu nhập:			Số tham chiếu: Số tờ khai: Ngày, giờ gửi: Ngày, giờ đăn Số lượng phụ		Công chức đăng ký tở khai ý:		
YY物流有限公司.	2	NOTE:	each shipper's	load & count conta	e cargo weight & measurement for ainer. Carrier shall hold the all charge, damage & expense	,	1. Người xuất khẩu: AB	C (HK) LTD.	:	5. Loại hình:	1			
TEL:9876 5432 Peter F Vessel Name & Voy. (船名及航次)	Place of receipt (收貨地點) 香港	Port of loading 装貨港) 香港	arising from ina (Port of disch (卸貨港)	accuracies of such			2. Người nhập khẩu: XY	Z Trading Ltd.		6. Hóa đơn thương mại:	7. Giấy phép số: Ngày Ngày hết hạn		8. Hợp đồng: Ngày Ngày hết hạn	
Marks and Numbers	Number and kind of Packages	Description of packag	es and goods	Gross weig cargo	ht of Measurement		MST 3. Người uỷ thác/người đượ	ơc ủy quyển:	9	9. Vận đơn (số/ngày):	10. Cảng xếp hàng:		11 Cảng đỡ hà Hong Kơ	0
Pallet No. 1-19		* metric code)] 100 kg:	s 36.49 CBM		MST 4.Đại lý Hải quan:			12. Phương tiện vận tải: Tên, số hiệu:	Ngày	đến	13. Nước xuất Hong Kơ	
	/~	(1/1/н]	אברע							14. Điều kiện giao hàng:		15. Phương thủ		
							MST	**		16 Đồng tiền thanh toán 20. Xuất xứ 21. C		17. Tỷ giá tính 23. Đơn	thuế: 20%	DS Thi sid
						nươc	c cam c	tông lạr	n	20. Auai Au 21. C		vị tính		25. Irî gia nguyên tệ
							nước cam đố			China			USD	2000

Convert to different formats and languages

E-Port Customs Declaration Data File



參同創新利研

Big Data Analysis: Provide reference for Harmonized System (HS) codes

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				HS Code	2009110000					
	HONG K			Chapter	第二十章(蔬菜、水果、坚果或植物其他部					
				Goods Chinese	冷冻的橙汁(未	发酵及未加酒精	韵,不论是否			
				Descriptions	加糖或其他甜物	勿质)				
HONG K	ONG				ented and not					
VIETNAN	1			Goods English	er or not					
MAINLAND CHINA				Descriptions containing added sugar or othe			r sweetening			
					matter					
Chapter	Heading	Code	Description	MFN Import Duty	7.50%					
1972				General Import Duty	90%					
08	0805	0805100000	oranges, fresh or	Export Duty	0%					
08	0800	0805100000		Export VAT	16%					
20	2000	2000110000								
20	2009	2009110000	orange juices, fro	Customs Declarations	# of Cases	First Case	Last Case			
		A Can Development of the Can Development of t	containing added	Import - Success	100	2017/12/01	2018/10/01			
		Americking for a constraint of the constraint of	containing added	Import - Failed	3	2017/11/22	2018/07/21			
			matter	Export - Success	140	2018/01/03	2018/09/24			
				Export- Failed	5	2018/03/03	2018/06/12			



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eBRAM

e-Belt & Road Arbitration and Mediation



實踐多示化-

Domain Knowledge Specific Translation

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ABOUT ARBITRATION

ARBITRATION

Arbitration is a method for resolving disputes between parties in private as an alternative to litigation in the courts. may be agreed by the parties before or after the dispute arises. The arbitration agreement is usually incorporated as part of the contract from which the dispute arose. However, even when there is no arbitration clause in the contract in dispute, an arbitration agreement can also be made after a dispute has arisen if the parties prefer not to go to Court. If there is no arbitration agreement, <u>mutual agreement</u> is necessary, as one cannot force another party to "arbitrate" a dispute if there is no arbitration clause.

English

LITIGATION OR ARBITRATION

Parties to a contract usually refer their disputes to arbitration because there is an arbitration clause in the contract.

If parties have agreed to go to arbitration, with very limited exceptions, they cannot repudiate the agreement by going to Court unless both parties agree. Under the Hong Kong Arbitration Ordinance (Cap. 609), if one party to an arbitration agreement commences legal proceedings in any Court against the other party, the latter may insist on arbitration and apply to that Court to stay the proceedings commenced. The Hong Kong Court will only refuse to stay the proceedings if the arbitration agreement is ineffective, e.g. it is not in writing, null and void, inoperative or incapable of being performed.

关于仲裁

仲裁

うお

=帝

仲裁是一种解决当事人之间争议的方法,以此作为在法院进行诉讼的替代方案。争议发生之前或之后,各方当事人可

以达成协议。仲裁协议通常是作为争议产生的合同的一部分合并而成的。然而,即使在有争议的合约中并无仲裁条款的 情况下,如当事人不愿出庭,亦可在争议发生后订立仲裁协议。如没有仲裁协议,则须相互协议,因为如没有仲裁条款,一 方不能强制另一方 "仲裁"争议。

诉讼或仲裁

合同当事人通常将争议提交仲裁,因为合同中有仲裁条款。

如果当事人同意进行仲裁,但例外情况非常有限,除非双方当事人同意,否则不得通过上庭的方式否定该协议。根据《香港仲裁条例》第(609)款的规定,如仲裁协议一方在任何法院对另一方提起法律程序,则该方可坚持进行仲裁,并适用于该法院,以待该法律程序开始进行香港法院只有在仲裁协议无效的情况下,才会拒绝继续进行该等法律程序,例如,该合约并非以书面、无效、不履行或不能执行为理由。



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Domain Knowledge Specific Translation

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حول التحكيم

التحكيم

التحكيم هو وسيله لحل النزاعات بين الأطراف في الفطاع الخاص كبديل للتقاضي في المحاكم . اتفاق التحكيم عاده كجزء من العقد الذي نشا النزاع منه .غير انه حتى عندما لا يكون هناك شرط تحكيم في العقد المتنازع عليه ، يمكن أيضا ان يبرم اتفاق تحكيم بعد نشوء نزاع إذا كان الأطراف يفضلون عدم الذهاب إلى المحكمة .وإذا لم يكن هناك اتفاق تحكيم ، فان الاتفاق المتبادل ضروري ، لأنه لا يمكن لأحد ان يجبر طرفا آخر .

التقاضمي أو التحكيم

.وعاده ما تحيل الأطر اف في العقد مناز عاتها إلى التحكيم لان هناك شرط تحكيم في العقد

وإذا وافقت الأطراف على الذهاب إلى التحكيم ، مع استثناءات محدوده جدا ، فانها لا تستطيع التنصل من الاتفاق بالذهاب إلى المحكمة ما لم يتفق الطرفان على ذلك إذا بدا أحد أطراف اتفاق التحكيم الإجراءات القانونية في اي محكمه ضد الطرف الآخر ، جاز لهذه الاخيره ان ، (Cap. 609) وببموجب قانون التحكيم لهونغ كونغ تصر على التحكيم وان تتقدم بطلب إلى تلك المحكمة لوقف الإجراءات ولن ترفض محكمه هونغ كونغ النظر في الإجراءات الا إذا كان اتفاق التحكيم غير فعال ، وذلك إدعى سير على التحكيم وان تتقدم بطلب إلى تلك المحكمة لوقف الإجراءات ولن ترفض محكمه هونغ كونغ معن على التحكيم وان تتقدم بطلب إلى تلك المحكمة لوقف الإجراءات ولن ترفض محكمه هونغ كونغ النظر في الإجراءات الا إذا كان اتفاق التحكيم غير فعال ، وذلك



唐联多元化一带

计谷

Domain Knowledge Specific Translation

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Русский



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ОБ АРБИТРАЖЕ

АРБИТРАЖ

Арбитраж является методом разрешения споров между частными лицами в качестве альтернативы судебному разбирательству в судах. Она может быть согласована сторонами до или после возникновения спора. Арбитражное соглашение обычно включается в состав договора, из которого возник спор. Однако даже в случае отсутствия арбитражной оговорки в спорном договоре арбитражное соглашение может быть также заключено после возникновения спора, если стороны предпочитают не идти в суд. В случае отсутствия арбитражного соглашения необходимо взаимное согласие, поскольку не может быть принуждение другой стороны к "арбитражу" спора, если нет арбитражной оговорки.

СУДЕБНОЕ РАЗБИРАТЕЛЬСТВО ИЛИ АРБИТРАЖ

Стороны договора обычно ссылаются свои споры на арбитраж, поскольку в договоре имеется арбитражная оговорка.

Если стороны согласились пойти в арбитраж, с очень ограниченными исключениями, они не могут отказаться от соглашения, идя в суд, если обе стороны не согласны. В соответствии с Гонконгским арбитражным указом (Сар. 609), если одна из сторон арбитражного соглашения начинает судебное разбирательство в любом суде против другой стороны, последняя может настаивать на арбитраже и обращаться в этот суд для того, чтобы приступить к разбирательству. Гонконгский суд будет отказываться от процессуальных действий только в том случае, если арбитражное соглашение окажется неэффективным, например, оно не является письменным, недействительным, недееспособным или не может быть исполнено.]



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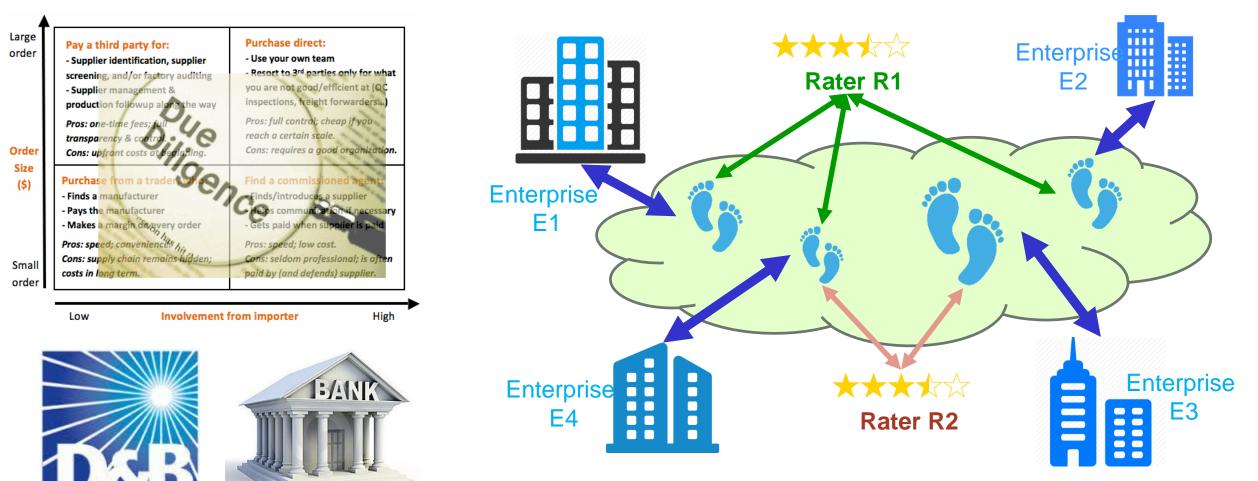
eKYC Know Your Customers



獻大灣品創新科研

eKYC - Open Credit Rating and Business FootPrint

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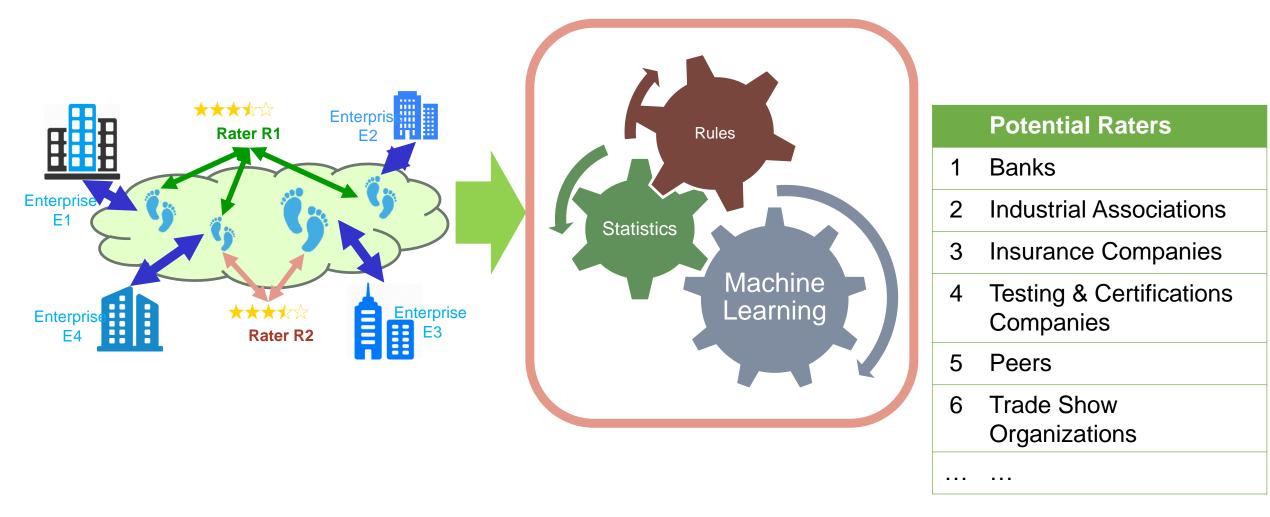




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Blockchain Technology and Data Analytics

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eBRAM eBRAM eTFP eKYC Rater R1 Rater R2

一帶一路

Connectivity is our Strength



China's current challenges:

- 1. Trade conflict
- 2. International market competition
- 3. "Sandwich trap"
- 4. Global warming
- 5. Global resources procurement
- 6. Regional conflict



實踐多元化一帶一路

灣品創新利田

Mainland China

Hong Kong



"3T" Strategy

Trust Trans-continental Teamwork

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拼船出海





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Actions in the Belt and Road Initiative with Innovation and Technology 貢獻大灣品創新科研 實踐多元化一帶一路





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THANK YOU VERY MUCH