



# Green Digital Finance Alliance

We Scale Green Finance with FinTech

# 5 trends with recommendations



1) Automation of TCFD & TNFD disclosures and the need for new data models

2) Digital Finance for Decarbonisation of carbon intensive asset classes

3) Transaction data for automated carbon accounting on citizen behaviours

4) DLT to automate green bonds and crowd in new green finance

5) Green Fintech in Policy and regulation

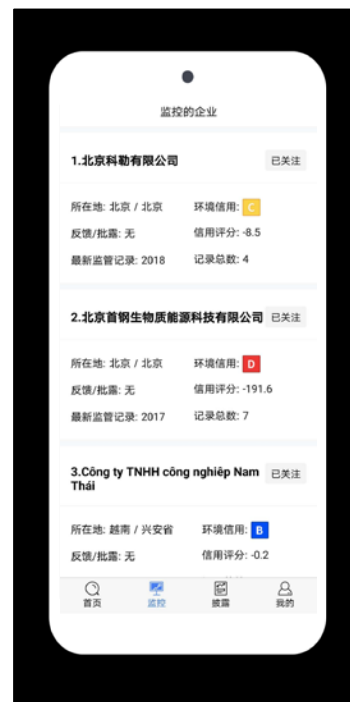
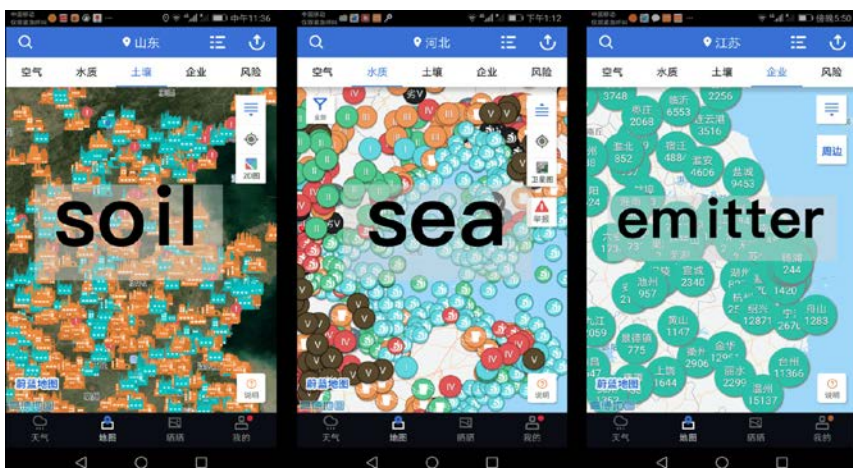
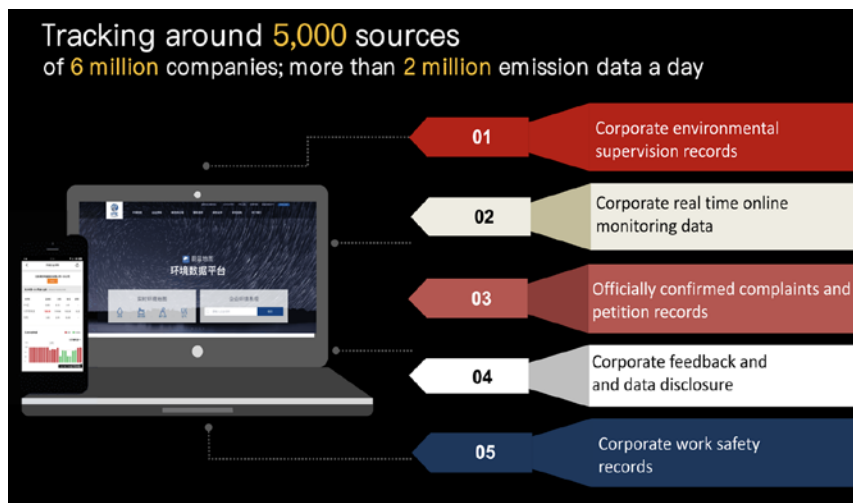




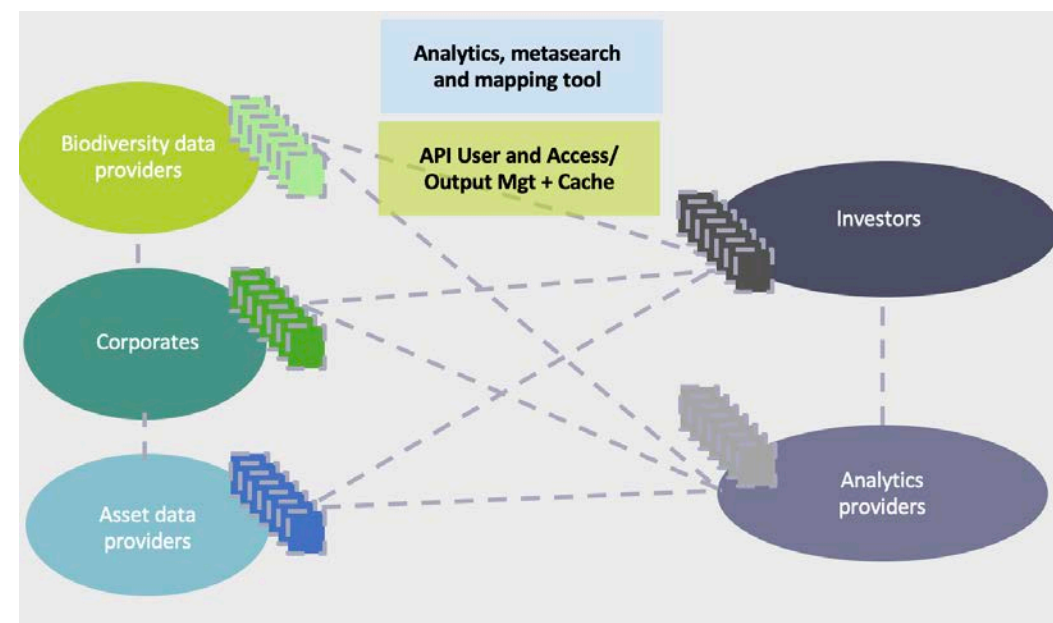
# 1) Automation of TNFD & TCFD disclosures and supervision



## Current practice in China



## Need for New Data models



# 2) Digital Finance potential for Decarbonisation of carbon intensive asset classes



## FinTech for decarbonisation of agriculture

### Decarbonise real-estate



CSR UK

Good afternoon, your last login was on October 6, 2020

Home Demo Select a building

Overview Buildings Add building

#### Business case

Additional investment	m <sup>2</sup>
Annual savings	£3,884,000
Annual CO <sub>2</sub> emission reduction	4,724 tonnes
Investment	£6,450,000
Payback period	3.4 year(s)

Some measures may overlap or may not have been completed. This can cause the total amount of savings and investments to be overstated.  
The amounts presented are exclusive of VAT.

#### Locations

#### Energy Performance Certificates in portfolio

71% Registered EPCs

EPC ratings

#### Top cost-saving measures

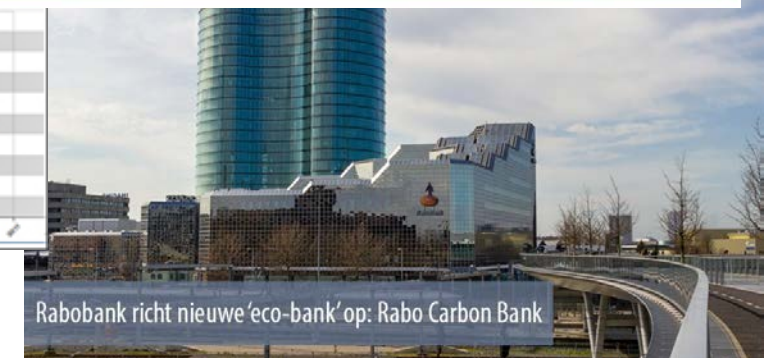
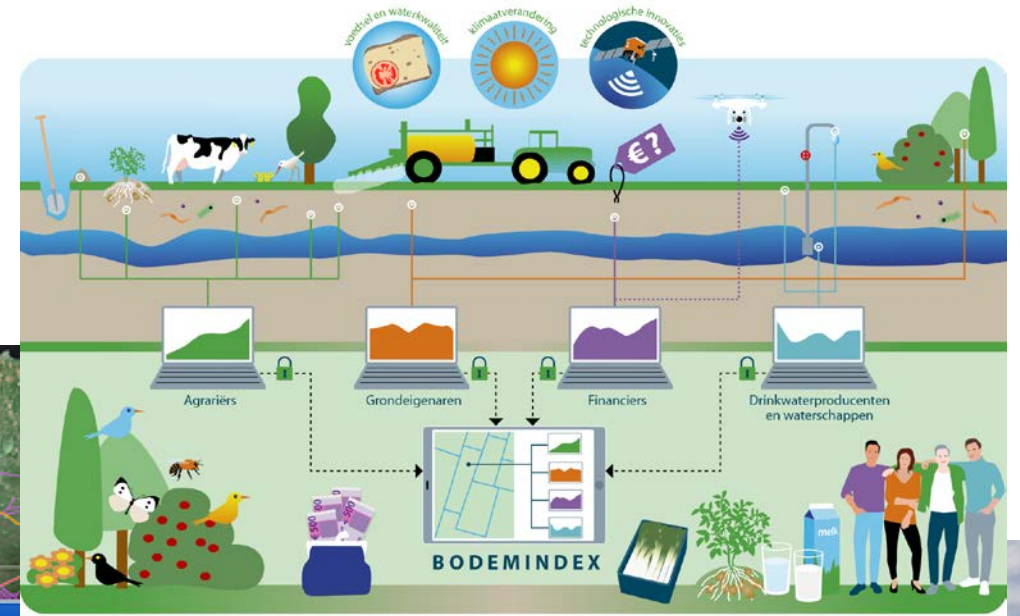
The top cost-saving measures of the entire portfolio shown in pounds.

LED lighting instead of fluorescent tubes (retrofit)	£751,000
LED lighting instead of CFL (retrofit)	£236,000
Lighting activated by motion sensors	£172,000
Energy management and energy control	£168,000
Daylight-responsive lighting	£140,000

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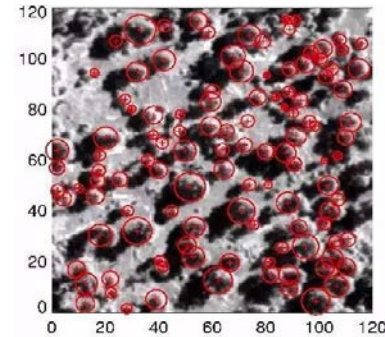
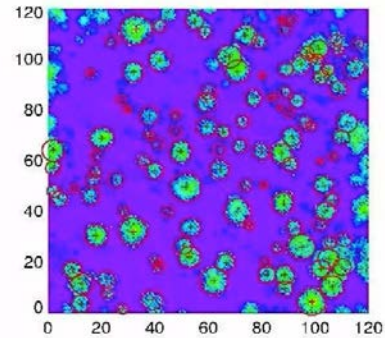
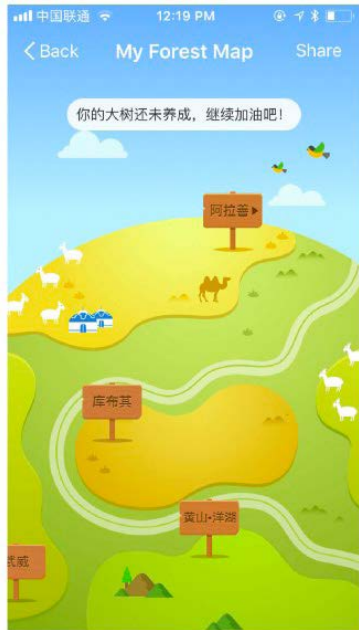
CFP © 2020 CFP Group Services

Description	Value
No data	0.00
Open water	0.00
Stone wall, hedges, buildings & roads	0.00
Ploughed land	0.00
Field borders arable	0.00
Openly vegetated	0.00
Almost open canopy	0.00
Closed canopy	0.00
Full green canopy	0.00
More than two layers of leaves, green forest	0.00





# 3) Transaction data for automated carbon accounting on citizen behaviours



**Ant Forest - roughly 7% of the world's citizens**  
AI supervised CO2 accounting on 18 behaviours

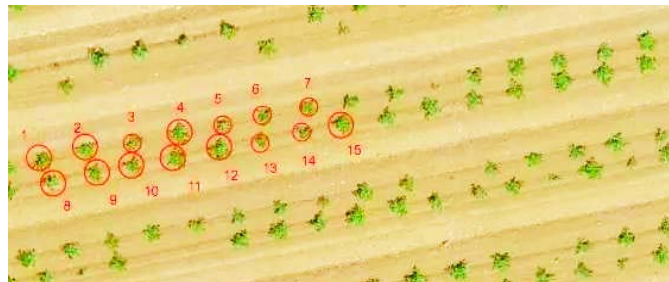
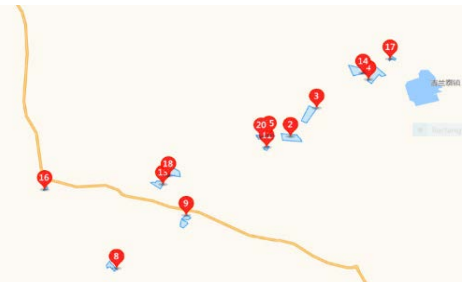
Rewards positive externalities via tree planting

10 different trees species to choose from or biodiversity protection

550 million users

**Gcash Forest launched June 2019. Today +6.9 million users**

World's 1st Net-zero pension fund



# 4) DLT to automate green bonds and crowd in new green finance



25) Bond Description		20) Issuer Description	
<b>Pages</b>		<b>Issuer Information</b>	
1) Bond Info	<b>Name</b> INTL BK RECON & DEVELOP	<b>Identifiers</b>	
2) Addtl Info	<b>Industry</b> Supranationals	<b>ID Number</b> AU2139528	
3) Reg/Tax	<b>Security Information</b>	<b>ISIN</b> AU0000020612	
4) Covenants	<b>Mkt Iss</b> Australian Kangaroo	<b>FIGI</b> BBG00LT3GBC0	
5) Guarantors	<b>Country</b> SNAT <b>Currency</b> AUD	<b>Bond Ratings</b>	
6) Bond Ratings	<b>Rank</b> Sr Unsecured <b>Series</b>	<b>Moody's</b> Aaa	
7) Identifiers	<b>Coupon</b> 2.200000 <b>Type</b> Fixed	<b>S&amp;P</b> AAA	
8) Exchanges	<b>Cpn Freq</b> S/A	<b>Composite</b> AAA	
9) Inv Parties	<b>Day Cnt</b> ACT/ACT NON-E... <b>Iss Price</b> 99.90100	<b>Issuance &amp; Trading</b>	
10) Fees, Restrict	<b>Maturity</b> 08/28/2020	<b>Amt Issued/Outstanding</b>	
11) Schedules	<b>BULLET</b>	AUD 110,000.00 (M) /	
12) Coupons	<b>Iss Sprd</b> +28.85bp vs ACGB 4 1/2 04/15/20	AUD 110,000.00 (M)	
<b>Quick Links</b>	<b>Calc Type</b> (23)AUSTRALIA:EX-DIV	<b>Min Piece/Increment</b>	
32) ALLQ <b>Pricing</b>	<b>Pricing Date</b> 08/23/2018	500,000.00 / 500,000.00	
33) QRD <b>Qt Recap</b>	<b>Interest Accrual Date</b> 08/28/2018	<b>Par Amount</b> 500,000.00	
34) TDH <b>Trade Hist</b>	<b>1st Settle Date</b> 08/28/2018	<b>Book Runner</b> CBA	
35) CACS <b>Corp Action</b>	<b>1st Coupon Date</b> 02/28/2019	<b>Exchange</b> NOT LISTED	
36) CF <b>Prospectus</b>	<b>ISS'D &amp; SETTLED USING DISTRIBUTED LEDGER TECHNOLOGY, SECURITY TRANSFER REQUIRES ACCESS TO THE BLOCKCHAIN PLATFORM</b>		
37) CN <b>Sec News</b>			
38) HDS <b>Holder</b>			
66) <b>Send Bond</b>			

**SI** Sukuk Negara Tabungan

djppr

**GREEN SUKUK RITEL**  
**ST006**  
SUKUK TABUNGAN NEGARA SERI ST006

#JadiLebihBijak

Masa Penawaran 1-21 November 2019  
Minimum Pemesanan Rp 1 Juta

**SBN**  
GENERASI INVESTASI LINTAS NEGARA



环境效益 单位: 万吨

标准煤	二氧化碳当量
33,025.05	6,378.18
化学需氧量	氨氮
0.33	0.02
二氧化硫	氮氧化物
0.00	0.01
节水	固体废物
3,172.82	0
挥发性有机物	总氮
4,637.23	0
总磷	
0	

绿色贷款余额 **596.11**

绿色贷款余额占比 **12.70%**

地区: 全国

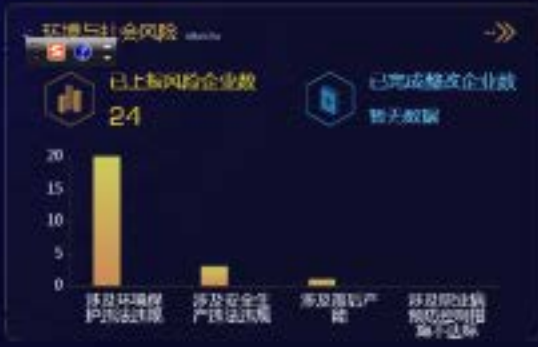


绿色贷款投向行业前三

1 自然保护、生态恢复及...	234.93
2 绿色交通运输项目	56.37
3 垃圾处理及污染防治...	51.49

绿色贷款余额占比排行前三

1 杭州银行股份有限公司	49.76%
2 兴业银行股份有限公司	44.75%
3 金华银行股份有限公司	43.38%





# Thank you!

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