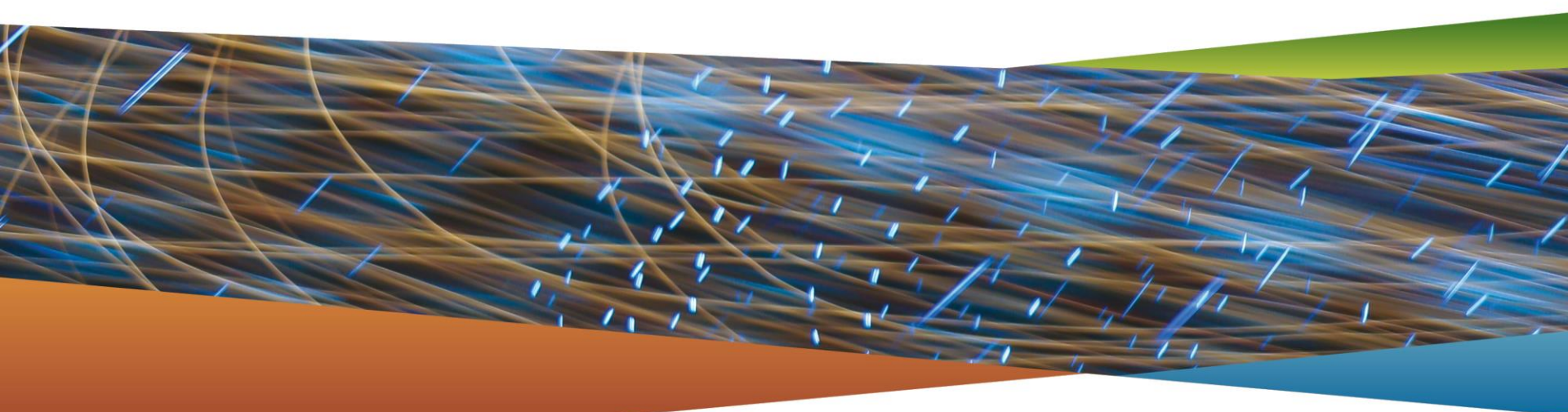


# G20 ENERGY EFFICIENCY ACTION PLAN: Networked Devices

PARIS | JANUARY 2015



# Key findings of More Data Less Energy & recommendations

Sam Thomas, IEA

## Why we care about networked devices?

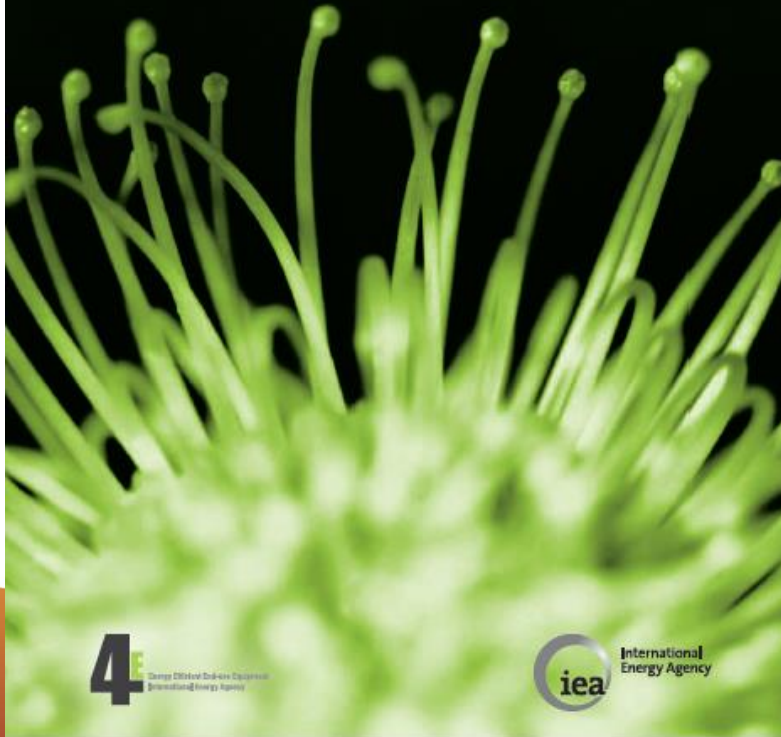
- Managing energy demand is key to secure sustainable energy systems
- Information communication technology (ICT) electricity demand is growing at a faster rate than overall electricity demand
- Devices (including appliances) in homes and offices are driving this demand
- These provide valuable services, but there are significant energy efficiency opportunities
- Policies can play an important role in creating the conditions needed to accelerate energy efficiency

# More Data, Less Energy

[www.iea.org/etp/networkstandby](http://www.iea.org/etp/networkstandby)

## More Data, Less Energy

Making Network Standby more Efficient  
in Billions of Connected Devices

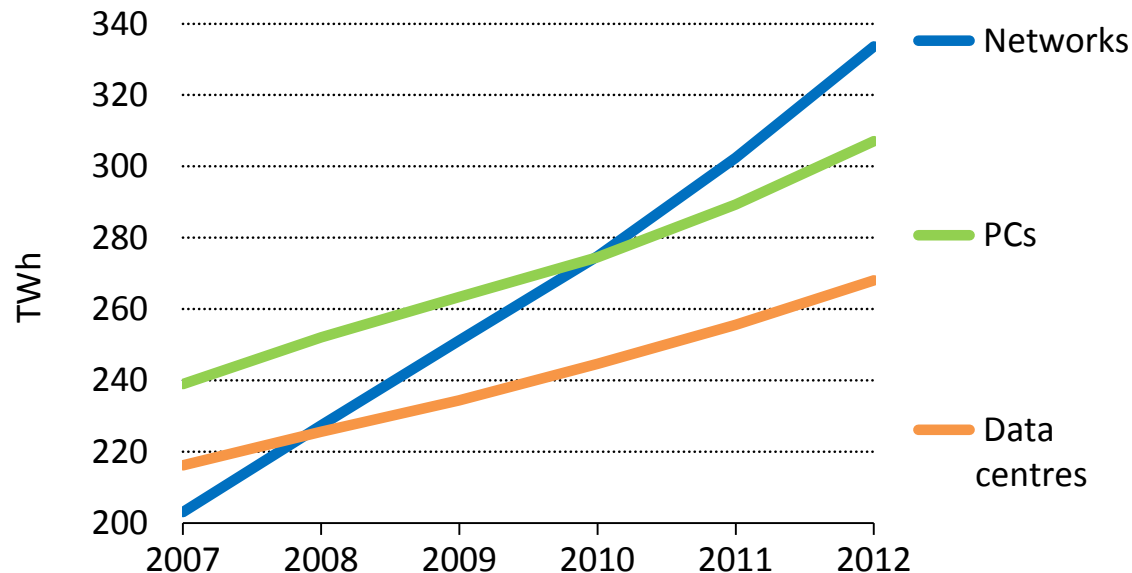


### Why is this publication useful?

- Explores recent developments and trends
- Focuses on energy implications
- Looks at technologies and solutions
- Provides guidance on policy responses
- Identifies possible roles for range of stakeholders

# Growing electricity demand of ICT

Electricity demand of networks, PCs and data centres

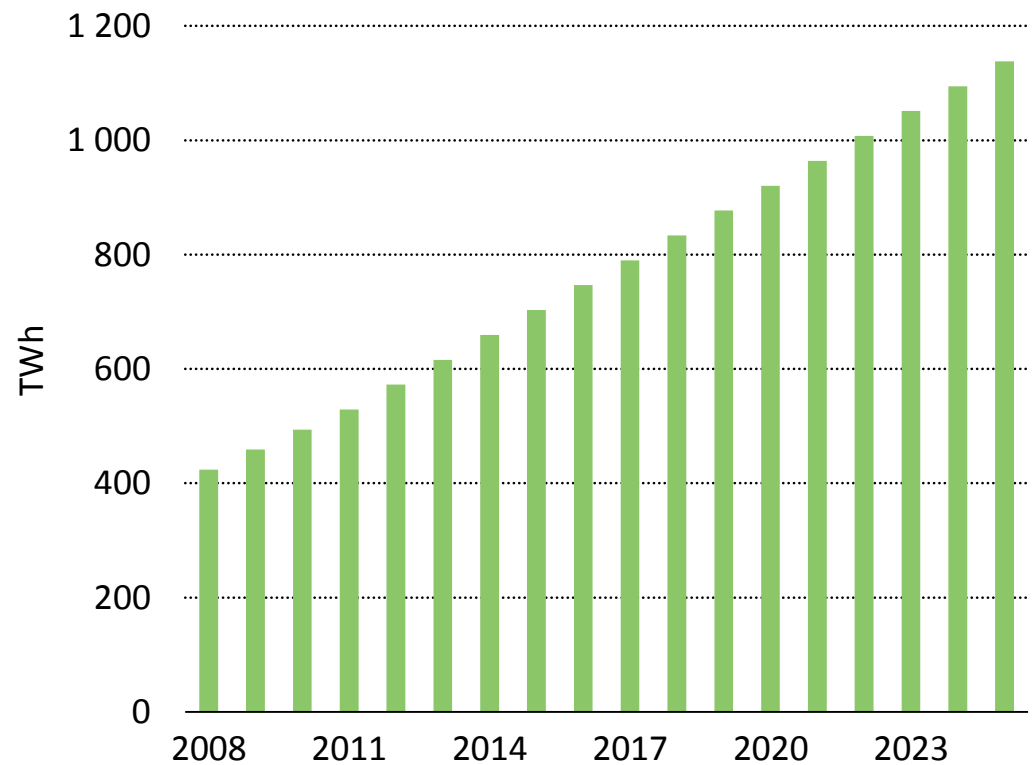
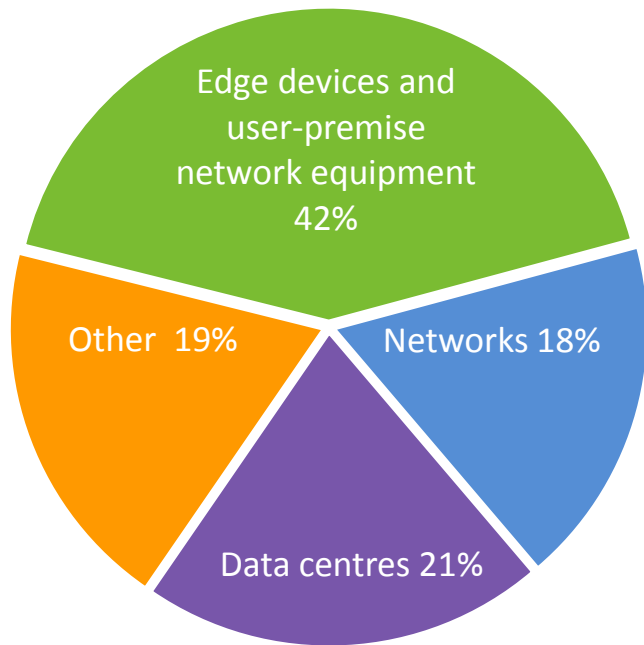


Total ICT energy demand reached 1560 TWh in 2013

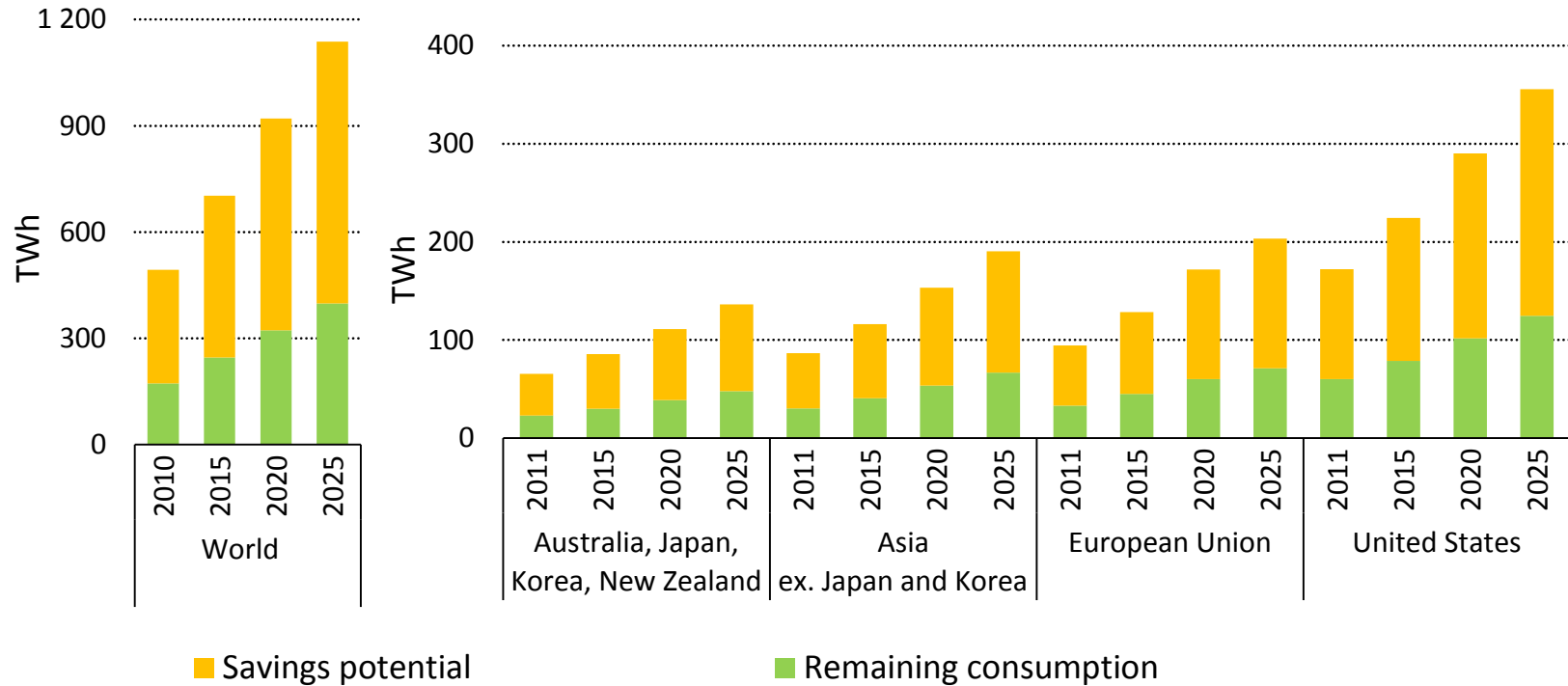
# Networked devices are driving electricity demand

## Networked device electricity demand

ICT electricity demand by segment

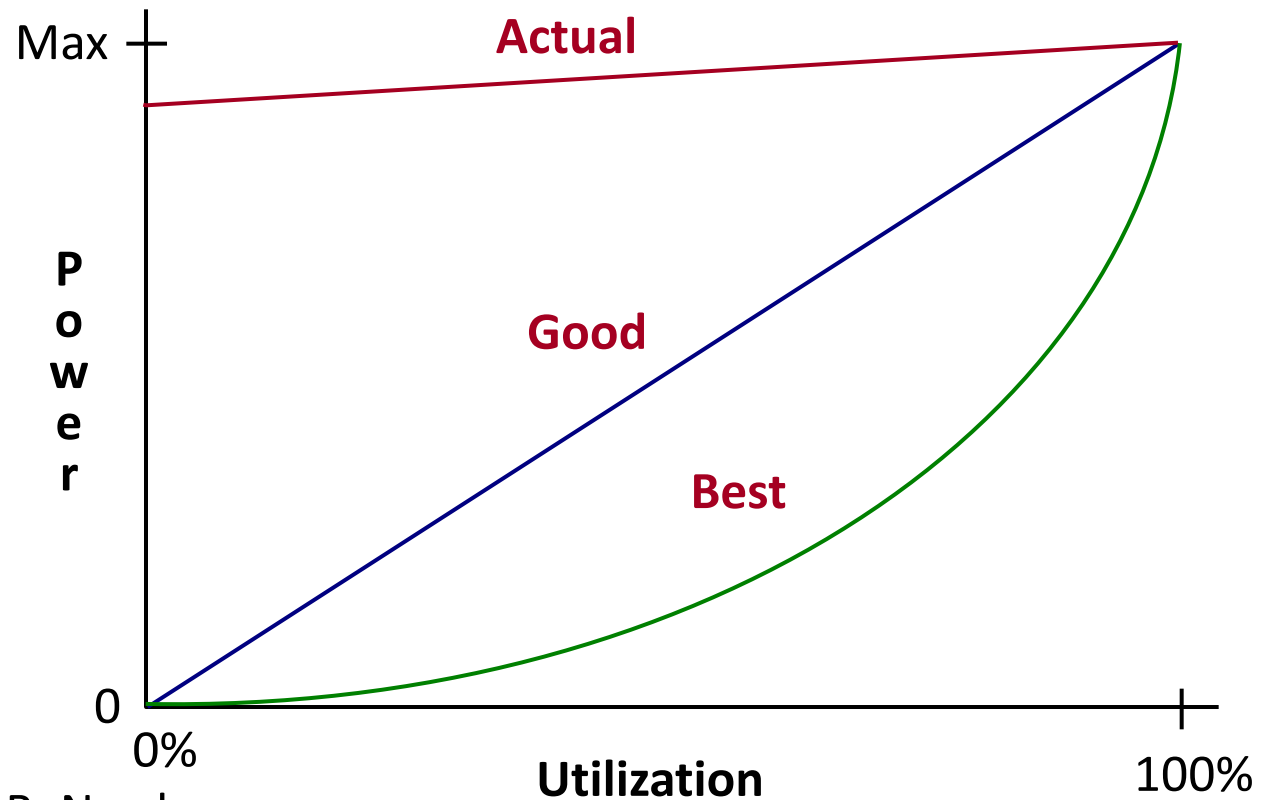


# How much could we save?



# Energy management and power scaling

Power scaling matches power draw to work performed

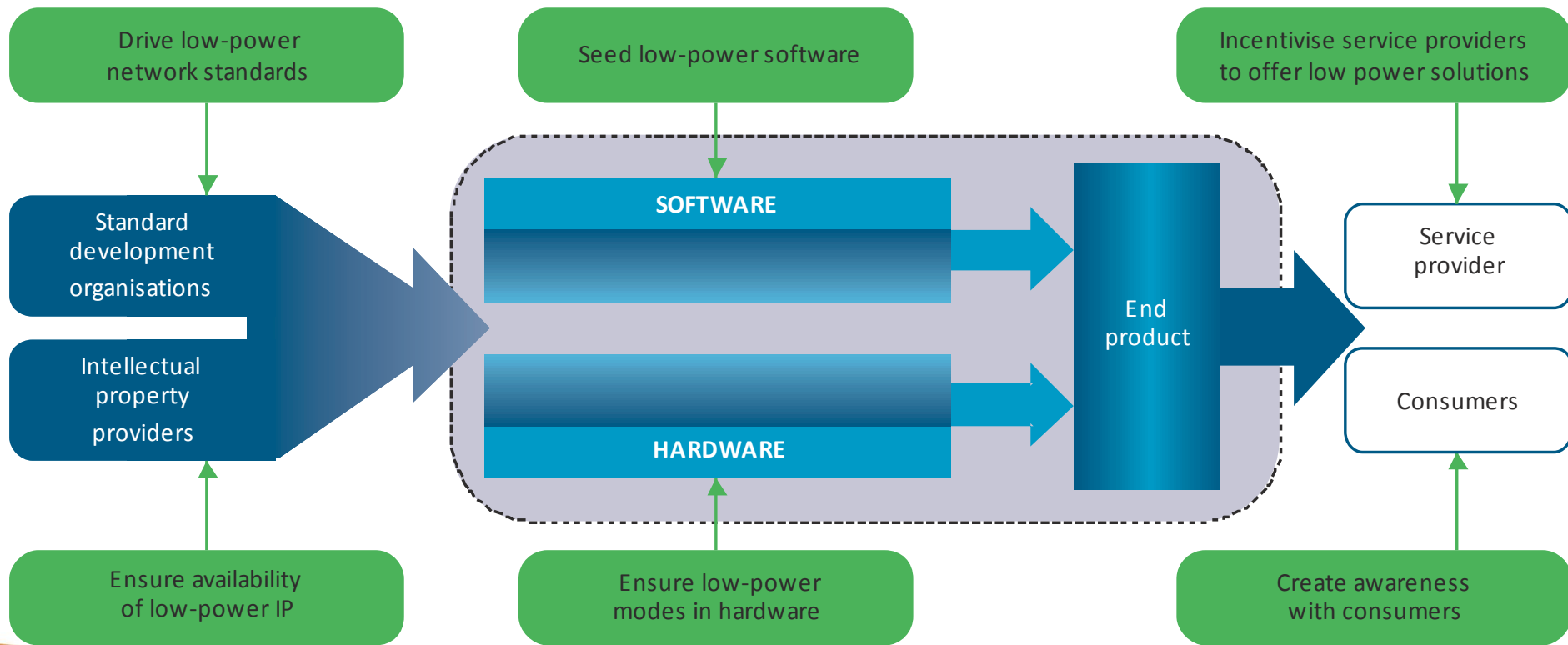


Source: B. Nordman



# Everyone has a role to play

How different actors across the value chain can promote energy efficiency



# Devices also need a holiday

Swiss consumer awareness raising campaign



**EN VACANCES,  
DÉBRANCHEZ!**

Offrez également une pause à vos appareils électroniques. Eteignez-les complètement ou retirez la prise. Ainsi vous éviterez des pertes d'énergie inutiles dues au standby. Si tous les ménages suisses éteignaient leurs appareils pendant leurs vacances, le gain en énergie se monterait à la consommation annuelle d'environ 15'000 ménages.

Plus d'informations sur [suisseenergie.ch](http://suisseenergie.ch)

En partenariat avec



## Examples of policy approaches

- EU
  - Voluntary agreements
  - Mandatory requirements
- Republic of Korea
  - Mandatory and voluntary requirements
- US
  - Voluntary industry led agreement on set-top boxes
  - ENERGY STAR LABEL (also in other countries)
- Switzerland
  - Awareness raising campaigns

## Key messages from More Data, Less Energy

- Develop and implement policies to promote energy efficiency
- Strengthen foundations for policy making
  - Standards
- Intensify international cooperation
  - Policy cooperation platform
  - Policy – Industry cooperation platforms