



#Hack4Climate

COP24 Profile
(12/2018)

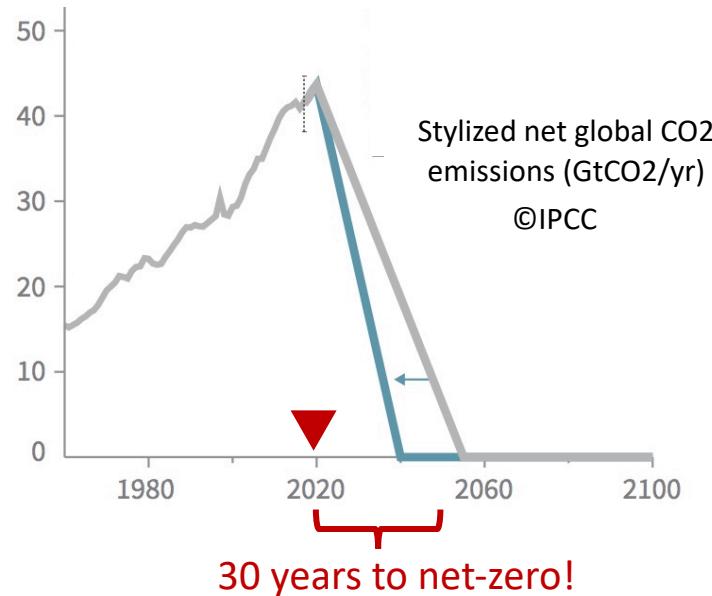
#Hack4Climate Innovation Program (overview)



- What: 5-year **innovation program** at intersection of **climate** and the disruptive technology troika **IoT, DLT/'Blockchain', and AI**
- Why: **Exponential decarbonisation requires exponential innovation**
- How: Accelerating **top teams** in **global program**, focused on the **key regulatory and technology opportunities** with global scaling potential
- Innovation approach: **open, community-driven, with leading partners**
- Program elements:
 1. **Challenge Definition** (scoping KPIs of scalable solutions, 9 months)
 2. **Annual Anchor Event** during COP climate conferences, in formal partnership, featuring **global hackathon and use case studio**
 3. **Use Case Accelerator** (18 months, best teams, co-investments)
- Governance & Finance: EUR65m, foundation-owned/-operated, lean team, strong investment board, alliance program, impact opportunity token

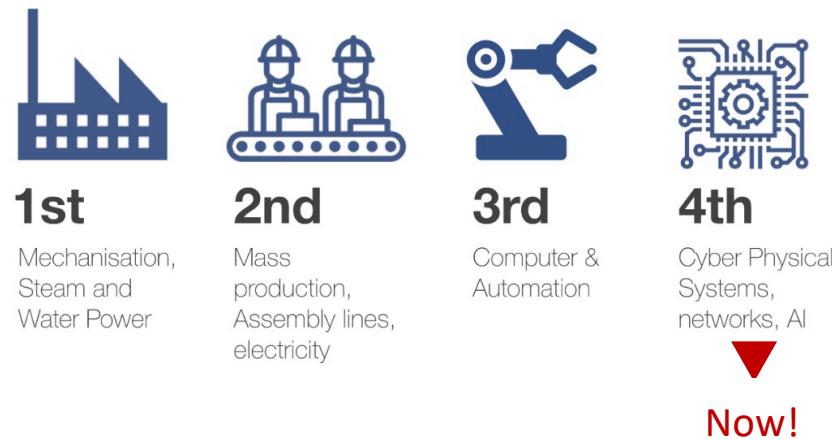
Climate Change: Exponential Action Needs Exponential Innovation (‘disruptive’ to implement Paris Agreement, for business & government)

Challenge: Exponential decarbonization



Source: <http://www.ipcc.ch/report/sr15/>

Solution: Fourth Industrial Revolution

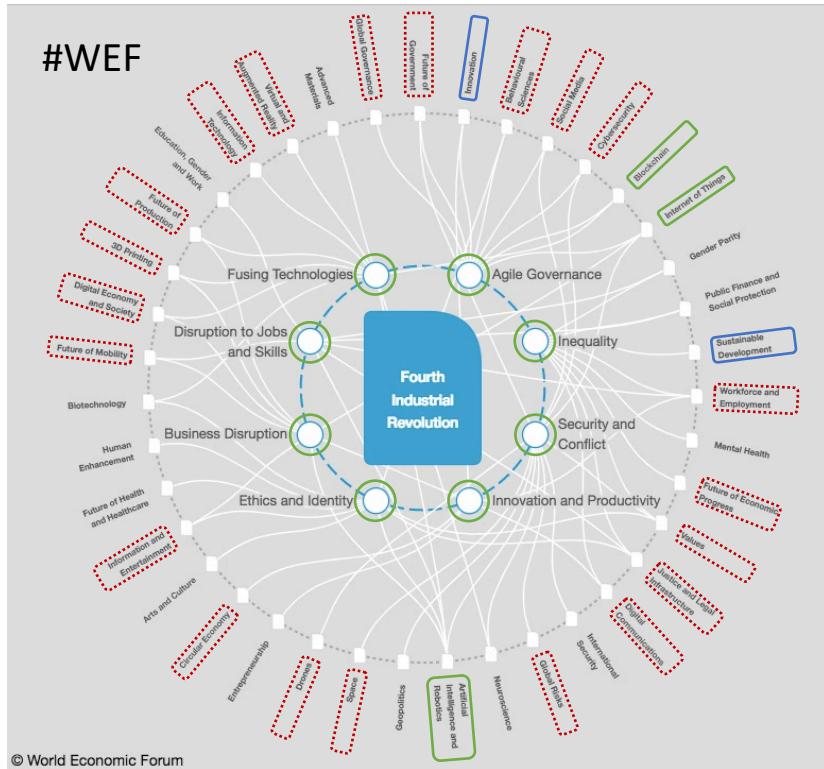


Note C21 Whitepaper:

‘A climate innovation perspective on the fourth industrial revolution’ (10/2018, [Link](#))

Forth Industrial Revolution Domains

(focus on IoT, DLT/'blockchain'/'distributed networks', AI)



Innovation & Sustainable Development

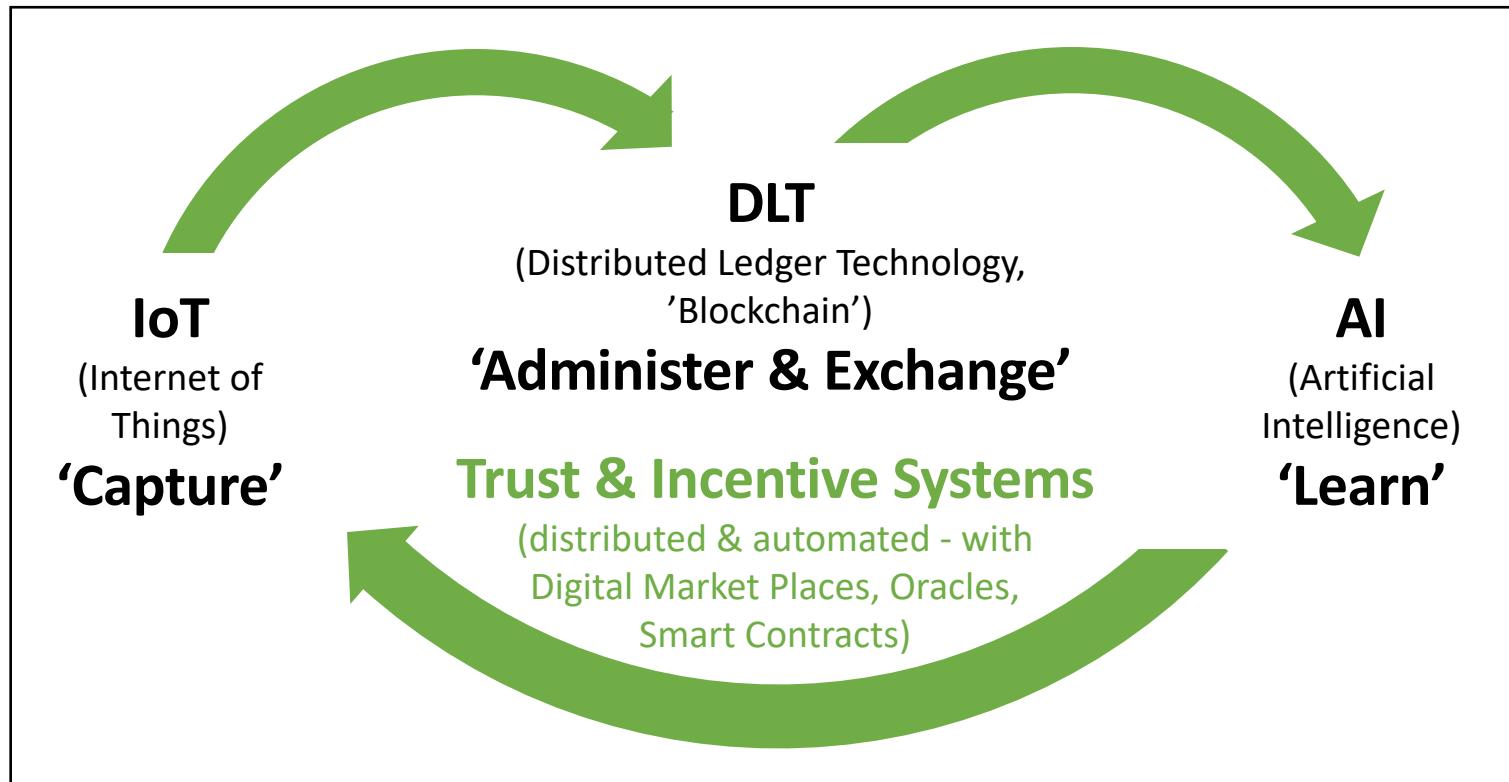
3 focus technologies

1. Internet of Things (IoT)
2. Distributed Ledger Technology (DLT, 'Blockchain')
3. Artificial Intelligence (AI)

Related Technologies & Other Relevant Domains

IoT, DLT & AI - the Disruptive Troika

(exponential innovation, focus continued/confirmed, use case experience)



#Hack4Climate 2017 at COP23, Climate Action Success

(100 hackers from 33 countries, 40 experts, 5 days – track record)



"My COP highlight"
James Close, World Bank



"A truly inspiring event"
Michael Casey, MIT



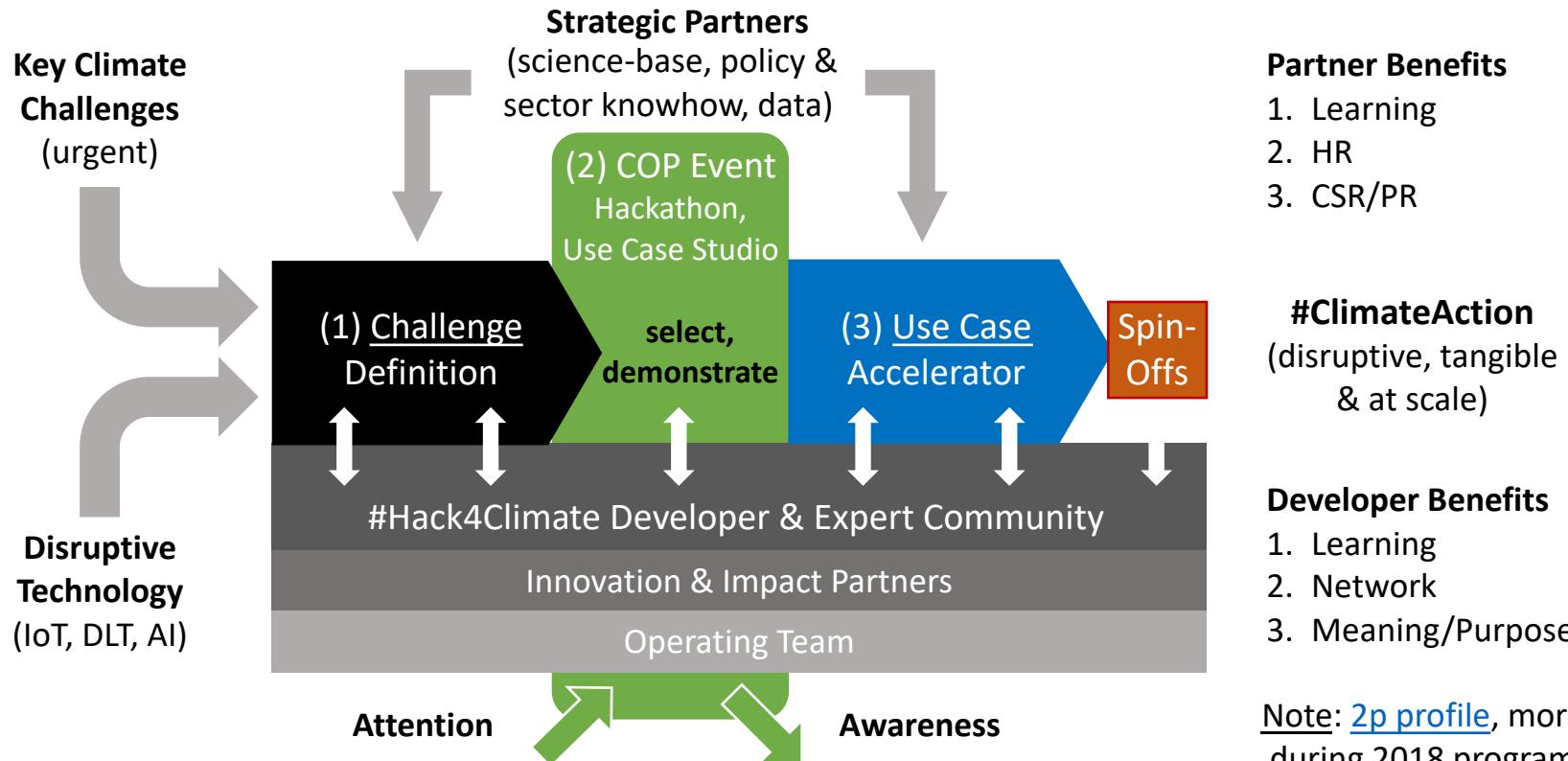
From Hackathon to Innovation Program

(approach works, needs acceleration, community & partners at the core)



#Hack4Climate Innovation Program (H4C), 2019-2023

(3 Stages, 5y/EUR65m, open-innovation/co-creation, technology agnostic)



Status

(sound partner basis secured, ongoing/building up alliance program)

Cleantech²¹

CLIMATE | **LEDGER**
INITIATIVE



United Nations
Framework Convention on
Climate Change



Stockholm
Resilience
Centre

future \varnothing rth



Note: Confidential, Not yet public

Engagement Areas

(key climate-impact domains, in sync with partners)

H4C FOCUS INDUSTRIES	H4C CROSS-INDUSTRY THEMES
1. Distributed Renewable Energy (production, storage, grid/exchange)	▪ Macro Trends: SDGs, digitisation, decentralisation, sharing, customiz.
2. Sustainable Transportation (mobility & logistics, integr./shared)	▪ Ambition Drivers: Paris Agreement, IPCC AR6, Mission2020/Carbon Law
3. Sustainable Land Use (agriculture & forestry)	▪ Technological innovation: IoT, DLT, AI – sensing, automation, 5G
4. Sustainable Materials & Products (‘supply chains’, circular economy)	▪ Regulatory innovation: bottom-up, incentivising, open gov.
5. Smart Buildings, Cities/Infrastructure (efficient, integrated systems)	▪ Policy Instrument Focus: Standards, pricing, registries/transfers, MRV
6. ICT & Sustainable Finance (enabling, scaling – Green Bonds)	▪ #ClimateAction Scope: Mitigation, adaptation & finance

Specific Challenges > Use Cases

H4C @COP24, Second Pilot Year

(in Katowice, Poland...for the ‘Paris Rulebook’)



2018 Event Approach

(piloting new challenges & formats – incl. online elements, use case studio)

Key Content Elements

- 1. Local Group of 25 Developers, Use Case Studio**
(Ambassadors, Leaders)
- 2. Three Remote Locations for Work-package hack**
(specific elements/needs, feedback by local team)
- 3. Third-party Pitch Sessions**
(cooperation with Climate Chain Coalition, other stakeholder – reviewed by local team)
- 4. Expert Input Sessions**
(focus on forests, energy, and NDCs)
- 5. Interaction with Local Hacker Community**
(integration into part of program, party)

Additional Elements

- 1. Formal COP24 Press conference**
(with strategic partners, Climate-KIC announcement)
- 2. Participation in Official Side Events**
(WWF, Climate Ledger Initiative)
- 3. COP Visit by Participants**
(2-day accreditations, further expert meetings inside COP)
- 4. Marketing Meetings**
(various/many, with potential corporate and NGO partners, guest visits to workshops)

2018 Master Challenges & Use Cases

(2017 winners, selected new challenges)

(Master) Challenges

1. **ClimateLedger.io** (distributed solution for NDCs, top-down & bottom-up emission accounting)
2. **ClimateDividend** (tax/dividend carbon pricing, fully transparent)
3. **H4C Token Model** (from ID, rights to co-investment & governance)

Use Cases

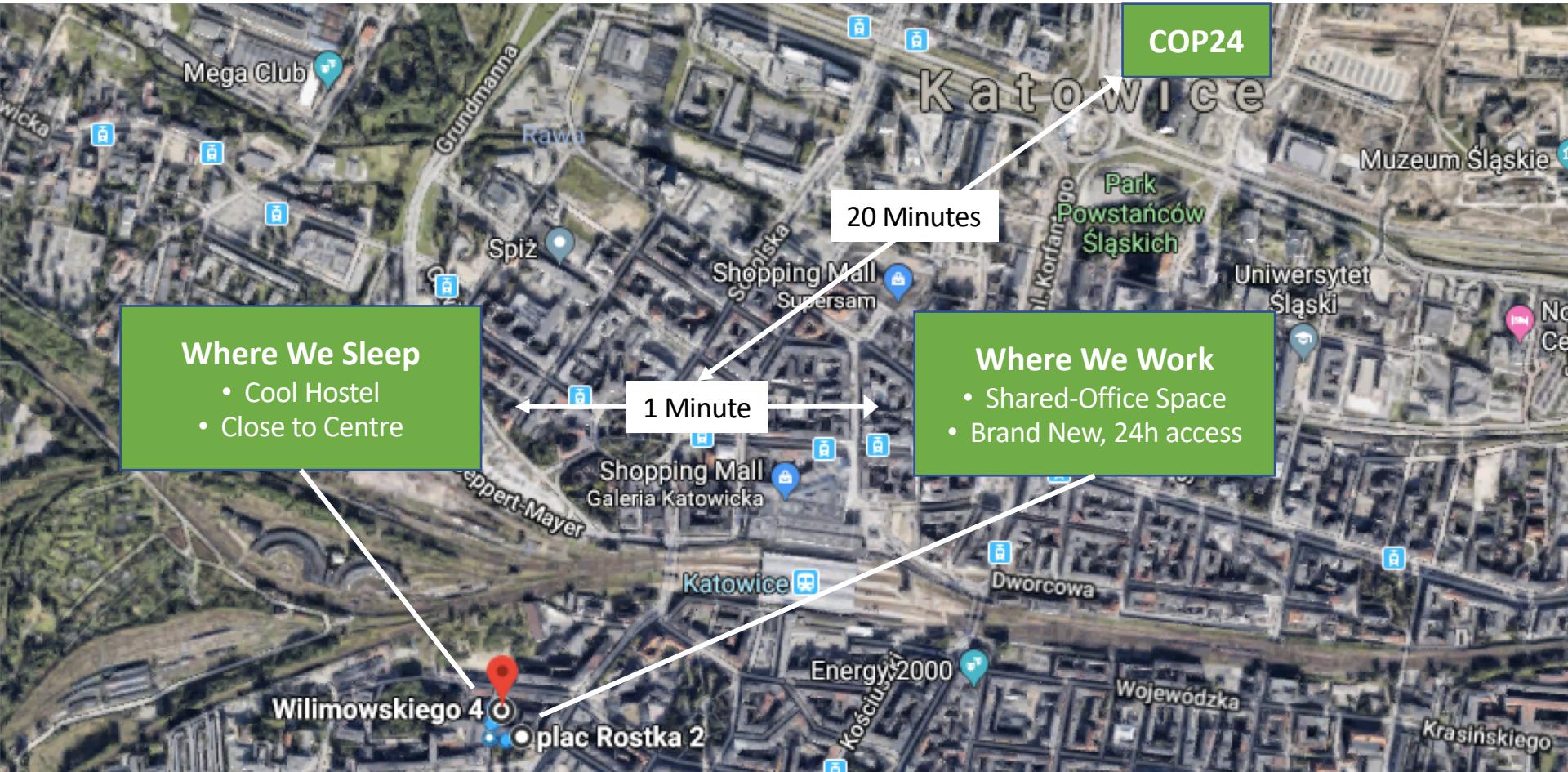
1. **REDD-Chain** (land mgmt, incl. [GainForest](#), pilot identified)
2. **Selber** (distributed energy/bottom-up network mgmt, [ISA](#))
3. **CleanCoins** ([Link](#), crypto sustainability rating, [Southpole](#))
4. **Autonomy** (mobility, column-building/linking autopilots)
5. **Balcony Climate** (IoT, climate & weather marketplace)

Note: Background docs provided for each

2018 Program

Hack4Climate 2018, @COP24, Katowice					09-13/12/2018
Date/T.	Sun, 09.12.2018 (Day 1)	Mon, 10.12.2018 (Day 2)	Tue, 11.12.2018 (Day 3)	Wed, 12.12.2018 (Day 4)	Thr, 13.12.2018 (Day 5)
00:00					
01:00	03.12.2018				
02:00	Off. Side Event, WWF				
03:00					
04:00	04.12.2018	zzzzzzz (8h)	zzzzzz (6h)	zzzzzz (6h)	zzzzzzz (6h)
05:00	Off. Side Event, CLI				
06:00					
07:00	09.12.2018	Bfast	Bfast	Bfast	
08:00	Presentation at Sust. Innovation Form	Program Q&A, Discussion	Team Workshops	Expert Presentations & Team Workshops	Bfast
09:00		Program & Token Model Workshop	Online Session Prep		Team Workshops
10:00					
11:00	Arrival	Program Finalisation	Online Opening Session 1		
12:00		Lunch (local)	Lunch (local)	Lunch (external) & Relax	Online Closing Session 1
13:00		Coal Mine City Walk	Online Open. Session 2+3		Lunch (local)
14:00		8 Case Introductions & Discussions	Team Workshops	Expert Presentations & Team Workshops	Online Closing Session 2+3
15:00					Team Pitches, Video & Wrap-up.
16:00			COP Press Conference		COP Visit
17:00					
18:00	Welcome Reception	Case Discussion & Tech Inputs	Team Workshops (Expert Qs)	CCC Case Pitches	
19:00	Welcome Dinner (local)				
20:00	Climate & H4C Program Update	Gear-up Dinner (local) (Task Definition & Team Formation)	Dinner (external)		Dinner (local), w. Guests
21:00					Concluding Dinner (external)
22:00	Relax	Pre-Pitch preparation			
23:00					
					14/12, day at COP

2018 Logistics



A photograph of the Eiffel Tower in Paris, France, at night. The tower is brightly lit from within, casting a warm glow against the dark sky. A large, illuminated sign with the words "ACTION NOW" in blue capital letters is mounted on the tower's base. The surrounding area is dark, making the illuminated structure stand out.

Thank you!
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