



3.1 รายงานความก้าวหน้าการดำเนินงานด้านการบริหารความยั่งยืน ไตรมาสที่ 4 ปี 2566

DECEMBER 19, 2023

IRPC has set the main levers for Net Zero Transition in 2023 as follow :

Q4 Performance

Highlight:

Eco-
Operation &
Technology



- RDCC economizer recovery (FGC) 7,358 tCO₂e
- Clean heat exchangers / Fire heater 40,725 tCO₂e
- ADU1 Pinch Technology 7,895 tCO₂e
- RDCC economizer recovery (FGC) 7,358 tCO₂e
- Solar Floating 8.5 MW 5,389 tCO₂e
- RDCCTGTU WHB recovery (73E406) 4,205 tCO₂e
- Strengthen OPOL-Increasing of HP 4,196 tCO₂e
- Reduce fuel at 24B001 by stop some (New) 2,185 tCO₂e
- CHP1 HRSG Cleaning Project 2,067 tCO₂e
- OPTIMIZE Steam ที่ใช้ supply หลอเผา 1,556 tCO₂e

Reshape
portfolios



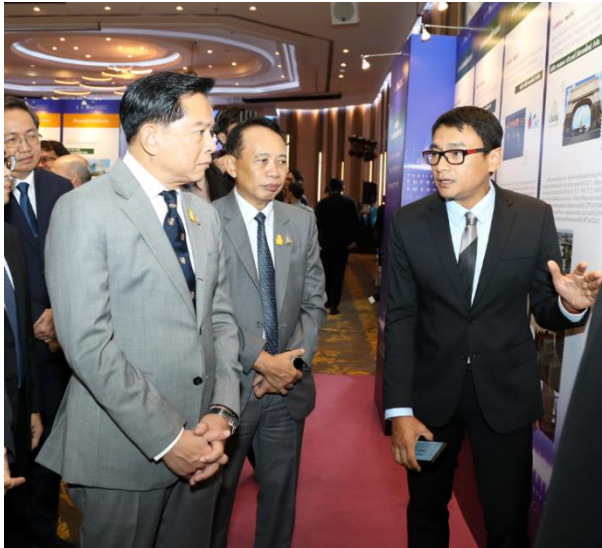
- Furniture in fit auto
- 3D printing with CU
- Prosthetic leg กับมูลนิธิขาเทียม
- Watch box with cosmo group
- Bio container with JCJ
- Recycle waste for society
- Project Boonrawd

Absorption
and offset



- MFL 20,000 rais , Currently in the process of registering the area
- Select area in Nov 2023
- CCU project study with PTT group

Key Hi-Light : Award and Collaborations Project



Thailand Energy Awards 2022 in "Energy Saving of Cracking and Quenching Processes by Digitalization" implemented at the IRPC ETP

Cooperation agreement with Boon Rawd Brewery and PTT to develop returnable equipment (e.g. bottle crate) from waste materials



Key Hi-Light : CE Project



Furniture in fit auto

Plan to deliver 3 more branch within Y'22
#9.มโธธ #10.การพดกธ #11. (ใหม่) ชัยนาท



Prosthetic leg

Sirindhorn foundation has internal issue
→ Still not sure when to sign NDA

Another recycle project: มูลนิธิริชาเทียม @
เชียงใหม่ แผ่นหนา 10-15 mm
→ Discussing long-term process i.e. volume



Watch box /cosmo group

Update:
Waiting to plastic waste in Feb-Mar 23



Bio container with JCJ

Update: same status – waiting for new order from end use

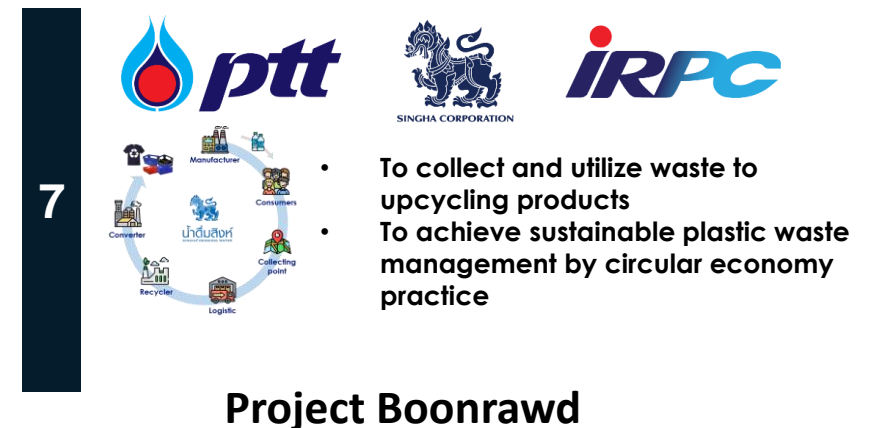


3D printing with CU

rPET/ABS : >> Already tested no. 14 and 15,
Result test PASS
Comment: No. 14 shows better appearance than No. 15
Next: Test No.14 with bigger product



Recycle waste for society



Project Boonrawd

Key Hi-Light : Forestation Project Site Visit with MFLF

ลงพื้นที่ตรวจสอบโครงการจัดการคาร์บอนเครดิตในป่าเพื่อการพัฒนาที่ยั่งยืน
ร่วมกับมูลนิธิแม่ฟ้าหลวงฯ อ.ดอยสะเก็ด จังหวัดเชียงใหม่

- รับฟังบรรยาย ประสบการณ์การดำเนินการจัดการแปลงตัวอย่างเพื่อการศึกษาคาร์บอนเครดิตจากป่าชุมชน โดย พ่อหลวงเอก คุณวิชัย เป็งเรือน ประธานเครือข่ายป่าชุมชน ต.แม่โป่ง และผู้ใหญ่บ้านต้นผึ้ง อ.ดอยสะเก็ด



Key Hi-Light : Forestation Project Site Visit with MFLF

ลงพื้นที่สังเกตการณ์กระบวนการตรวจสอบความใช้ได้โครงการ T-VER ภาคสมัครใจ
โครงการจัดการคาร์บอนเครดิตในป่าเพื่อการพัฒนาที่ยั่งยืน อ.แม่ริม จังหวัดเชียงใหม่

ร่วมสังเกตการณ์กิจกรรมเปิดการตรวจสอบความใช้ได้ ร่วมกับผู้ประเมินภายนอก
และชุมชน และร่วมสังเกตการณ์กิจกรรมตรวจสอบข้อมูลภาคสนาม ณ แปลง
ตัวอย่างป่าชุมชน





SET AWARDS 2023

Sustainability Excellence Sustainability Awards of Honor

SET market capitalization of over THB30 bln.
but no more than THB100 bln.

















บมจ. ไออาร์พีซี
IRPC

2023 result

Activities

 Progression

Key enablers	Action
Policy and structure	 Launch boardroom-level decarbonization levers
	 Incorporate sustainability concerns and GHG reduction in project steering committee
	 Seek out green financing for decarbonization efforts and change internal financing rules
	 Gear organizations toward sustainability goals and execute strategy
People	 Upskill and Training
	 Change management program
	 Communication programs
	 Leader and role model
Process	 Set up infrastructure to kick-start implementation, also net-zero lab
	 Integrate carbon pricing into financial performance and operation planning
	 Implement decarbonization criteria in procurement, sourcing and supply chain
System and data tracking	 Set up end-to-end (E2E) sustainability-production system (SPS) for all functions
	 Set up GHG reduction target as corporate KPI and deploy to all related functions
	 Set up carbon tracking and accounting system

2024 Action Plan

Activities



Today focus



Progression










Key enablers		Action	Result
Policy and structure		● Set up Forestation structure	• Forestation team
		● Align Net zero target in subsidiary company	• Strategy alignment
		● Update goal with Global sustainability goal (SBTI)	• Align with Global standard
		●◐ Refine and update decarbonization levers	• Review, verify GHG pathway
		● Establish policies to integrate circular economy principle	• Deploy CE Policyy and roadmap
People	▶	● Sustainability training (ESG Academy)	• Increase capability building and ESG mindset of target group
		● Develop sustainability leadership programs	
Process	▶	● Implement ESG system and Integrate AI for GHG prediction	• Visualize and automated ESG platform
		● Enhance sustainability reporting transparency (TCFD)	• CFP for Styrenic product group
		● Post evaluate decarbonization assessment in procurement	
		● Calculation and verify CFO,CFP in operations	
Change management & communication		● Continuous communication program	• Increase engagement of stakeholder
		● Improve sustainability dimension in corporate website	

ESG Academy framework : Increase capability building and ESG mindset of target group

Stream	Target audience	Objective and outcome	Course format
Executives	IRPC executive management (CEO,SEVP,EVP,VP)	<ul style="list-style-type: none"> To understand how to strategically integrate ESG principles into overall corporate strategy and decision-making. To effectively engage with diverse stakeholders, including investors, customers, employees, and communities, etc. To identifying and managing ESG-related risks and opportunities to enhance the organization's resilience and competitiveness. 	<ul style="list-style-type: none"> In-person session 4 sessions on ESG trend and direction 2 hours per session
Middle management / Key function	IRCP's employee at the Middle management level who work on each topic	<ul style="list-style-type: none"> To gain expertise in implementing and managing ESG frameworks and standards such as GRI, SASB, TCFD To be able to engage cross-functional teams, fostering collaboration between departments such as finance, operations, human resources, and marketing to drive ESG initiatives. 	<ul style="list-style-type: none"> In-person sessions with video recording. 10 sessions on ESG topics 3 hours per session.
Employee	IRPC employee at all level	<ul style="list-style-type: none"> To understand ESG principles and alignment with the organization's values and mission To create awareness of ESG considerations into their daily work practices, regardless of their role or department. 	<ul style="list-style-type: none"> Video recording session 3 sessions on ESG principles and corporate alignment 1 hour per session

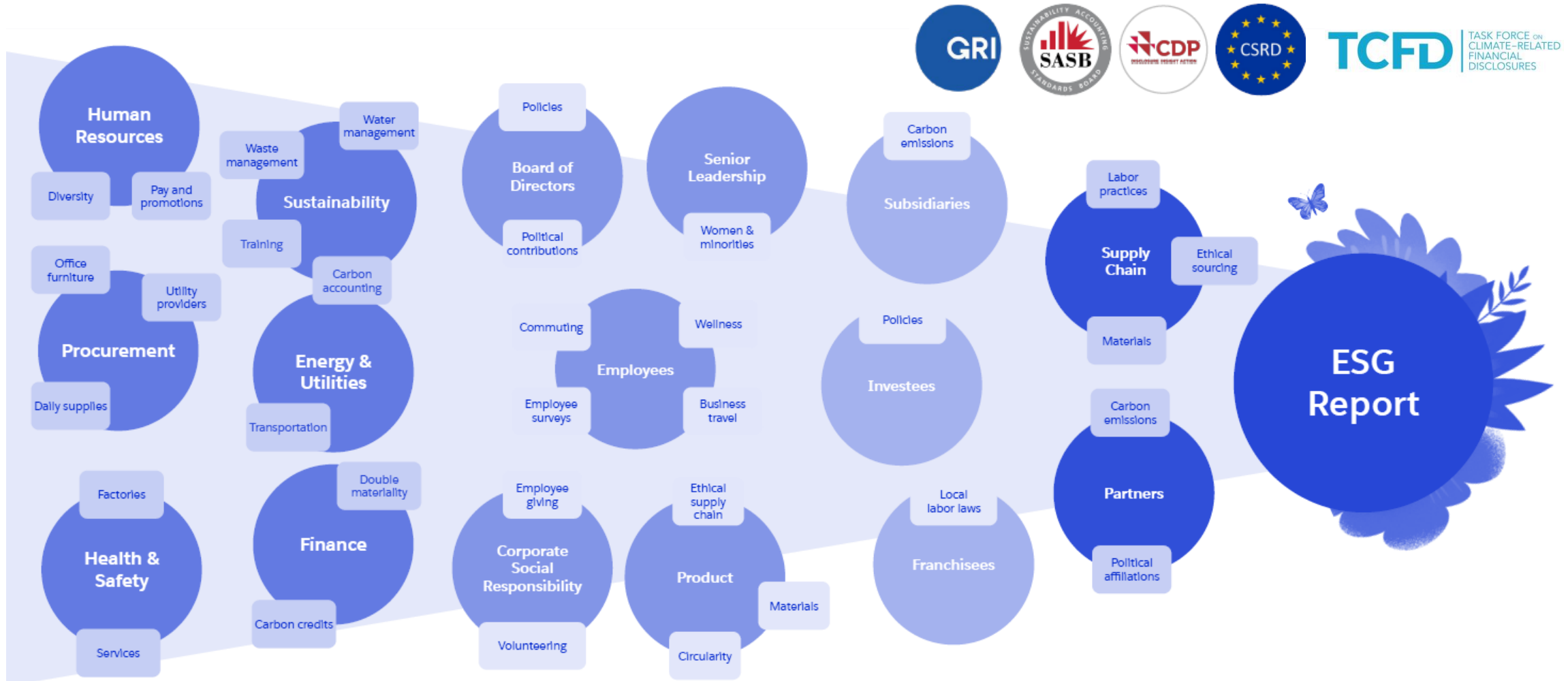
ESG Academy – High level timeline

8 months to implement key activity including plan, develop content, training and evaluation

Activity	Month	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Outcome
(1) Planning													
Define objective and approach													Curriculum outline
Clarify overall requirements: timeline, outline, participants													Kick-off meeting
(2) Developing													
Perform desk research from internal and external sources, including international instruments and													Training material and presentation
Develop a contents of each training sessions.													
(3) Training													
IRPC's Executives													4 sessions - onsite
IRPC's Middle management & key functions													10 sessions - onsite
IRPC's Employee													3 sessions - online
(4) Evaluation													
Testing result and evaluation from RWA survey													Score improvement
Summarize all deliverables													

Implement ESG platform due to difficulties in Handling and Reporting ESG Data due to Manual Processes

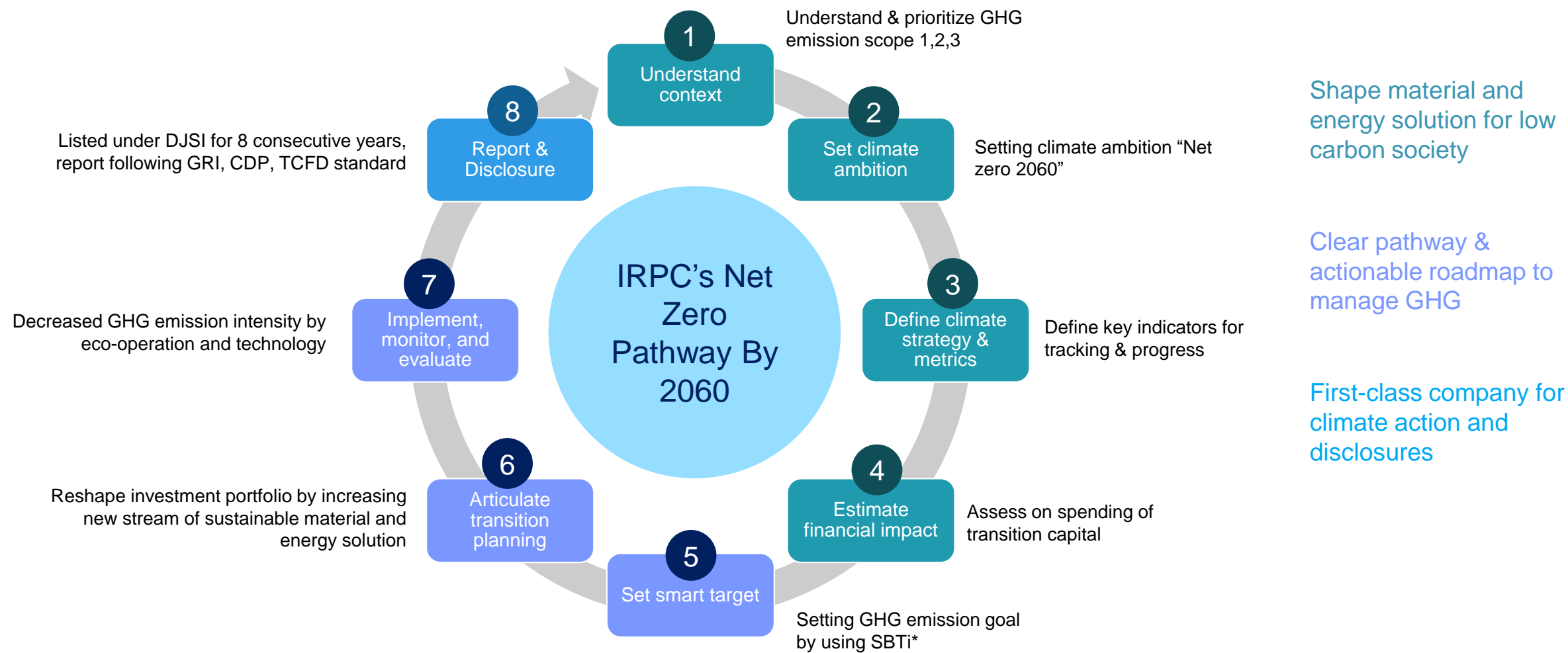
ESG Data is vast and hard to obtain while demand for ESG transparency is growing with no single reporting standard or framework.



ESG platform help to tracking and reporting system project



We need effective tool and system to support our transformation in action of setting, tracking, formulating and reporting



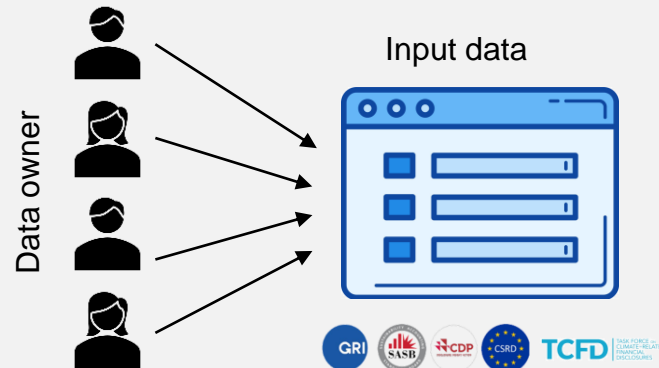
TO BE : Development for ESG platform is part of sustainable pathway

ESG Data will be centralized, more accurate and traceable. Meanwhile report will be generated automatically and insightful



Data collection and management

Centralize and systematic

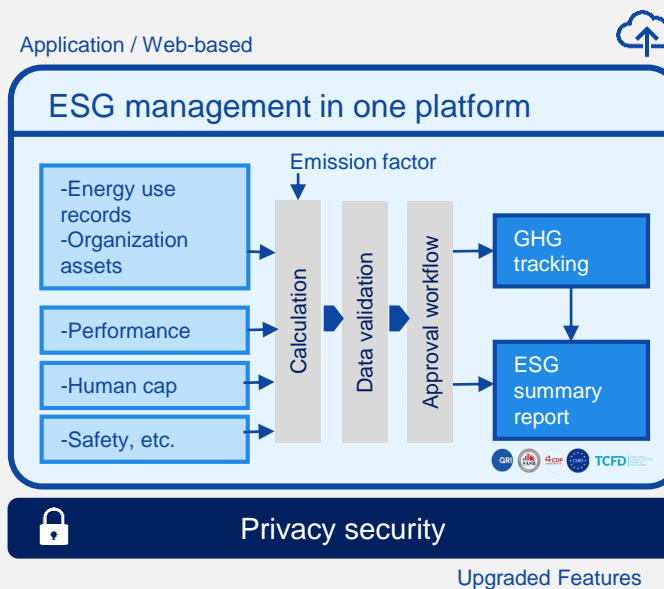


- Centralize platform with user friendly interface
- Data collection formatting in alignment with international reporting framework
- Real time editing by multiple users



Data process and analysis

Accurate and traceable



- Data conversion / unit of measure
- Automated consolidation and calculation
- Auditable, reliable of data



Data insight, compliance and disclosure

Visualize and automated



Report complete in standard format



Data incorporated in system



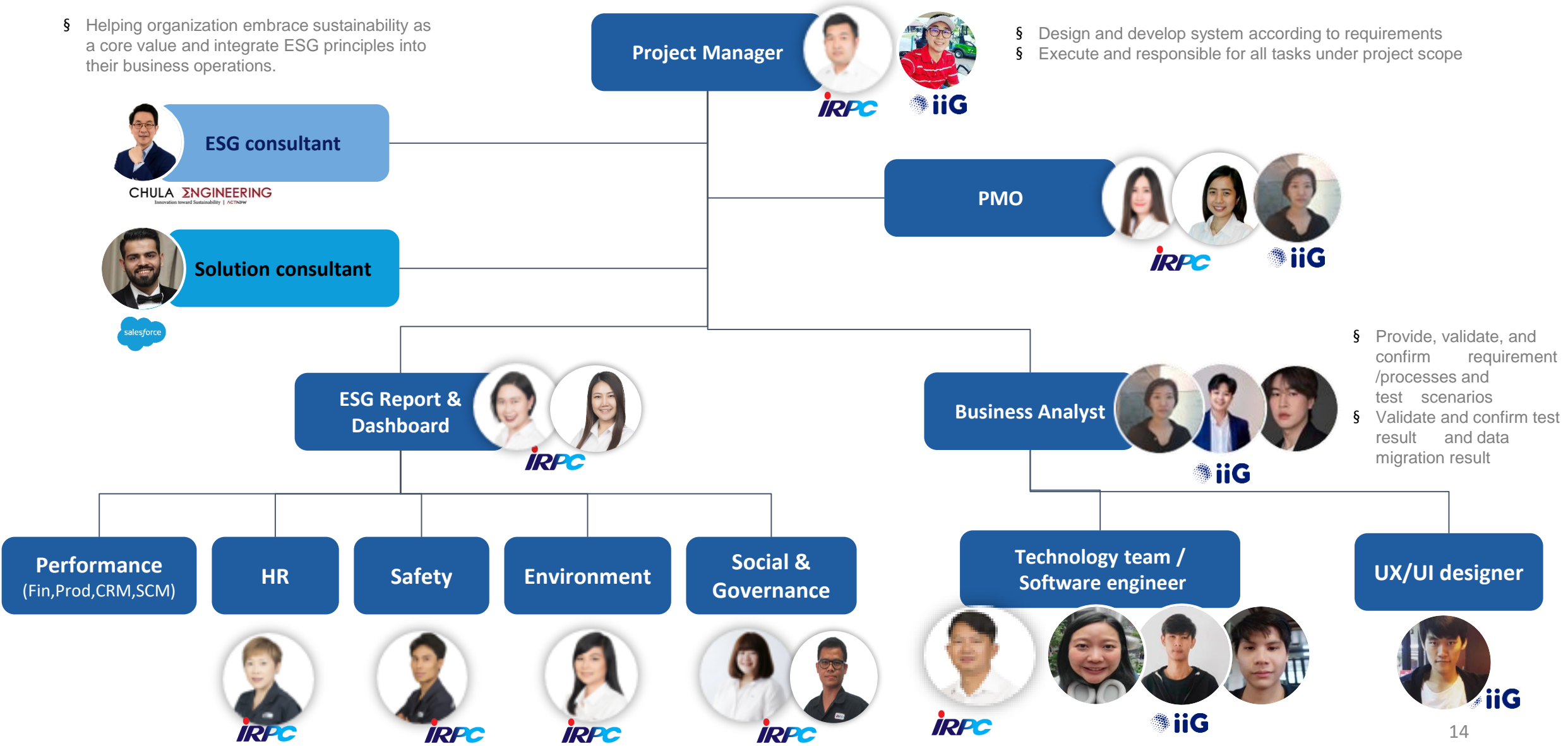
Data insight represented by visualized dashboards



- Dynamic dashboard visualization
- Improved data quality from effective way of management
- Report generation with one click

Project Team Organization

§ Helping organization embrace sustainability as a core value and integrate ESG principles into their business operations.

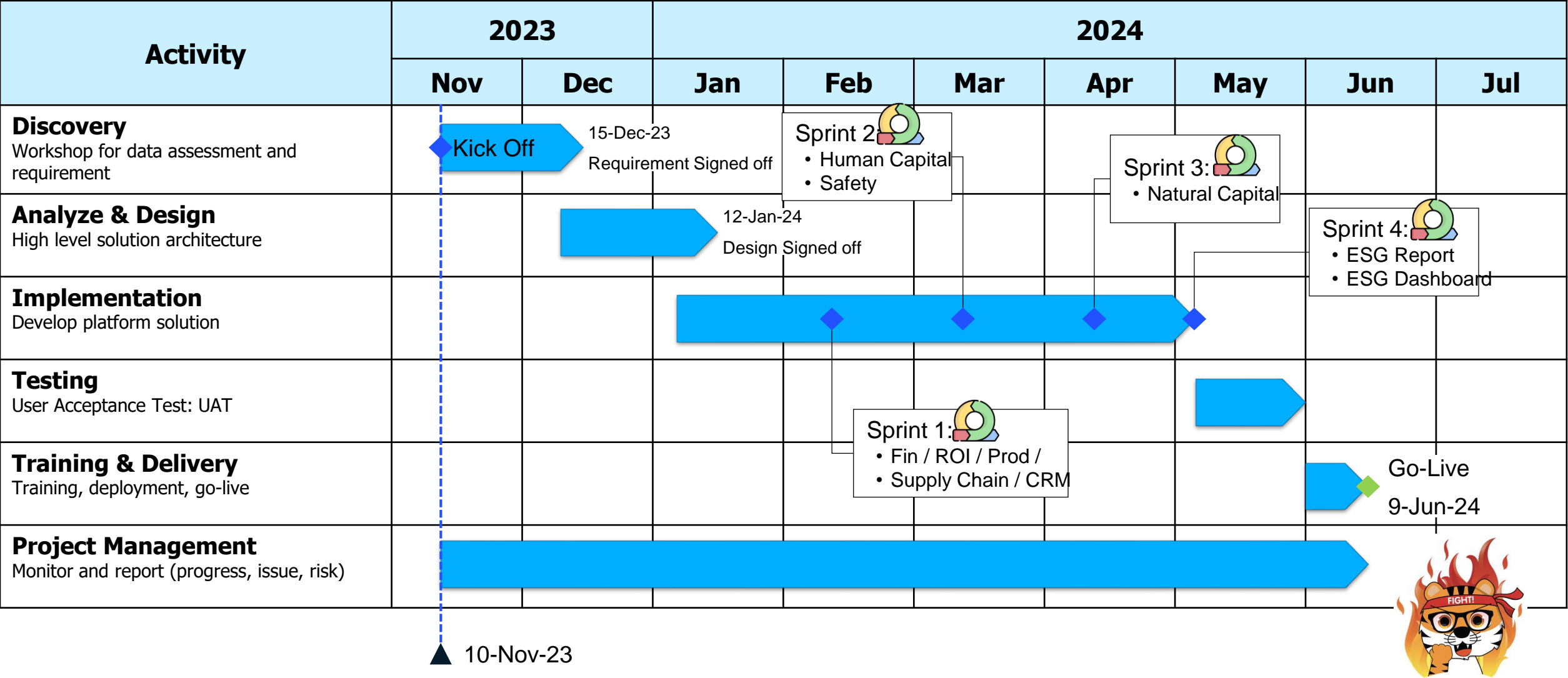


- § Design and develop system according to requirements
- § Execute and responsible for all tasks under project scope

- § Provide, validate, and confirm requirement /processes and test scenarios
- § Validate and confirm test result and data migration result

Project High Level Timeline

Project will be implemented within 7 months, ensuring by project governance process.



IRPC has set the main levers for Net Zero Transition in 2024 as follow :

2024 Target

Eco-
Operation &
Technology

140,000 tCO₂e

Reduction from EII project and Divest coal in 2024

3 %

% GHG reduction VS
baseline

4 %

Total % accumulate GHG
reduction from baseline

Reshape
portfolios

Design &
process optimization

- Eco-Design Adoption Rate
- Material Efficiency Improvement

8 Initiatives (IL3 approved)

- Re-design process with operation and RD
- Reduce raw material consumption
- Explore sustainable feed stock
- Collaboration with external stakeholder

Absorption
and offset

20,000 Rais

Reforestation project

40,000 Rais

Accumulation area from
2023

7 %

% Area accumulation
from target target

For Acknowledgement

จึงเรียนมาเพื่อโปรดทราบรายงานความก้าวหน้าการดำเนินงาน
ด้านการบริหารความยั่งยืน ไตรมาสที่ 4 ปี 2566 และแผนการดำเนินงาน ปี 2567