

## Planning Workshop on Climate Change Adaptation

The planning workshop for the project on Climate Change Adaptation for industrial Parks (CCA) in the state of Andhra Pradesh and Telangana was conducted on August 25-26, 2015 at Leonia Holistic Destination, Shameerpet. The purpose of the workshop is to appraise the participants of APIIC and TSIIC about the CCA Project.

The decisions to be taken by TSIIC are:

### 1. Formation of Steering Committee:

As a part of the project, we have requested Secretary to Government and CIP, Department of Industries and Commerce, GoTS to constitute the Steering Committee for the Climate Change Adaptation Project. The details of the same are enclosed at Annex 1. VC & MD is requested to facilitate the constitution of Steering Committee in consultation with the Secretary.

### 2. Finalising the nominees of 5 Working Groups, which are important instruments of the cooperation strategy:

- a. Approving 5-Working groups as an instrument for project management and implementation,
- b. Nominating officers and head of the each working groups from TSIIC, assigning their respective responsibilities,
- c. Suggest organisations should be approached to associate and participate in the WGs. Reference papers, e.g. stakeholder landscape, roles and responsibilities of WG

Presently constituted Working Groups are attached in Annex 2  
(The above decisions need to be taken by the management of TSIIC)

### 3. Finalization of Operational Plan:

**Decision to be taken on: Approval of the Draft Operational Plan**

INTEGRATION along with respective Working Groups will develop and finalize the Operational Plan comprising Work Packages. The approval of Steering Committee for the Operational Plan for next 6 months and also for the entire project duration is necessary for implementation of the CCA Project.

Suggested Operational Plan is attached as Annex 3

# Report of the 2-day Planning Workshop on “Climate Change Adaptation in Industrial Areas of Andhra Pradesh and Telangana”

August 25-26, 2015



## Background:

The Climate Change Adaptation (CCA) Project for Industrial Areas of AP and TS is assisted by the German Government and is being carried out by INTEGRATION Environment and Energy GmbH, Adelphi Consult and Ifanos Concept & Planning of Germany on behalf of the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH. This project has a commitment of EUR 2.5 million from the German Federal Ministry of Economic Cooperation and Development (BMZ) for a 3 year period commencing from April 2015 and ending in April 2018.

This CCA Cooperation Project with Germany will help to proactively take measures in Industries and Industrial Parks to adapt to Climate Change and overcome the associated negative impacts and risks for continuation of business by industries. The project will also help developing methods and tools, plans for climate-resilient industrial area development and implement the measures on pilot basis in selected existing and new Industrial Parks in the states of Andhra Pradesh and Telangana.

In view of this, INTEGRATION organised a two day Planning Workshop on 25<sup>th</sup> and 26<sup>th</sup> of August, 2015 at Hotel Leonia Holistic Destination, Shameerpet, Hyderabad for the Officials and Working Group members from APIIC and TSIIC and carried out Group activities using GIZ Project Management Tools for planning of CCA Project. The schedule of the programme is attached at Annex 4.

## Working Groups (WGs)

The participants from TSIIC & APIIC were divided into the following 5 Working Groups.

- Working Group:1A - Guidelines
- Working Group:1B - Engineering & Planning
- Working Group:2 - Capacity Development
- Working Group:3 - Policy & UP-Scaling
- Working Group:4 - Implementation & Support

The roles and responsibilities of Working Groups are included in Annex 2

## The Workshop:

The basic idea for conducting the workshop is to plan and interact with APIIC and TSIIC officials by focussing on the following topics:

- Concepts of Climate Change Adaptation
- Understanding the CCA project
- Working Groups (WGs) to understand the collective management of the Project
- Group activities focussing on planning and developing objectives, deliverable outcomes, strategy, cooperation partners, steering structure, different processes and learning by each working group



Besides, the workshop also covered team building aspects.

## Participants:

The 2-day workshop had more than 50 participants from APIIC and TSIIC HQ and their respective Zonal Offices. The list of participants is given at Annex 5. The workshop was conducted by INTEGRATION team, led by Dr. Dieter Brulez, Dr. S.S. Varaprasad, Mr. P.V. Rao GM (QC), TSIIC and Mr. S. Chand Pasha, GM (EMP), APIIC.

## Day 1: August 24, 2015:

The participants arrived at the Hotel at about 5 pm on August 24, 2015. The evening was used for team building activities followed by dinner.



Figure 1: Team Building Activities



Figure 2: Team Building Activities

## Day 2: August 25, 2015:

After the morning session of yoga, cycling and other refreshing activities, the workshop started at 9:00 AM.

The Workshop started with welcoming address by Mr. Hrishikesh Mahadev, Technical Advisor, INTEGRATION



Figure 3: Dr. Brulez, addressing the participants



Figure 4: Mr. Chand Pasha, GM (EMP), APIIC, addressing the participants



Figure 5: Dignitaries on the dais





Figure 6: Dr. Varaprasad, INTEGRATION, addressing the participants

Dr. Dieter Brulez, extended welcome and briefly introduced the concept, objectives and importance of the CCA project. He has also explained the necessity of formation of Working Groups and related it with the Work Packages of the Project. Sri. P.V.Rao, GM (QC), TSIIC has expressed his happiness at conducting the two day workshop. Sri. Chand Pasha, GM (EMP), APIIC, has stressed on the adverse impacts of environmental pollution on bio-geo-cycles. Dr. S.S.Varaprasad, Senior Policy Advisor explained the importance of Climate Change Adaptations (CCA) Project and its applications in Industrial Parks of APIIC and TSIIC.

Thereafter, Dr. Rajani presented an introduction to climate change and its global, national and state impact scenarios, which constituted the basics concepts of CCA project. This was followed by the presentation of Sri. Niroj Mohanty of CoreCarbonX Solutions on “Climate Financing Avenues and Approaches” focusing on potential sources of finances available for Climate Change Mitigation and Adaptation.



Figure 7: Dr. Rajani, INTEGRATION explaining Basic Concepts of Climate Change



Figure 8: Mr. Hrishikesh Mahadev, INTEGRATION presenting the Working Group Activities





Figure 9: Mr. Niroj, CoreCarbonX elucidating on Finances available for Climate Change Adaptation



Figure 10: Interaction between Mr. Srinivas Phani, CGM (Finance), TSIIC and Mr. Mohanty, CoreCarbonX on Climate Finances

Mr. Hrishikesh continued the session by giving detailed group wise presentation on Working Group (WG) activities, Work Packages / Processes of the CCA project. The WGs participants, were asked to apply the GIZ management tools outlined in the Capacity Works covering the key success factors like; Strategy, Co-operation Landscape, Processes, Steering Structure and Learning & Innovation.



Figure 11: Discussions among Working Group-1B: Engineering and Policy



Figure 12: Discussions among Working Group-3: Policy and Up-scaling





Figure 13: Discussions among Working Group-2: Capacity Building

The participants from TSIIC & APIIC were divided into 5 Working Groups to elaborate their 'strategy' success factor. Five (5) groups carried out the task in their respective group.

### Day 3: August 26, 2015:

Based on feedback received from participants on day 2 activities, detailed clarifications on Climate Change Adaptation and Mitigation were given by Mr. Hrishikesh Mahadev. To understand Climate Change Adaptation measures for different hazards / risks, each working group was given the task of developing an integrated adaptation plan for climate change affected industrial parks. The following were the tasks given to each working group;

- **Each group had to develop a plan covering the following issues to arrive at a strategy:**
  - Define objectives and outcomes of the respective plan
  - Discuss and decide: Who are the key stakeholders and secondary stakeholders & what are their roles in the project?



- What are training requirements of stakeholders of APIIC/TSIIC?
- Who should monitor and steer the programme?
- Define who will do what within the group (communication, coordination, monitoring, planning, spokesperson, etc.)
- What are the processes required to achieve the goals (learning, regulatory, planning, technical, steering, external support, etc.)?



Figure 14: Participants attending the session on Climate Change Adaptations

■ **Working groups tasks:**

- Working Group 1A: Guidelines – Flood affected existing IP



Figure 15: Working Group 1 A on Guidelines discussing on Group Activity

- Working Group 1B: Engineering & Planning – Cyclone affected new IP



Figure 16: Working Group 1B on Engineering and Planning discussing on Group Activity



- Working Group 2 Capacity Development – Flood affected existing IP



Figure 17: Working Group 2 on Engineering and Planning discussing on Group Activity

- Working Group 3 Policy & UP-Scaling – Drought affected old IP



Figure 18: Working Group 3 on Policy and Up scaling discussing on Group Activity



- Working Group 4 Implementation & Support – Drought affected New IP



Figure 19: Working Group 5 on Implementation and Support discussing on Group Activity

The outcomes of the Group Activity has been compiled and represented in terms of GIZ Capacity Works, which is attached as Annex 6.

After Dr. Rajani's presentation on draft Operational Plan, the concluding session ended with Dr. Dieter Brulez, Project Director elaborating the importance of formation of Working Groups, cooperation processes and draft operational work plan as part of project management. He has emphasised that working groups need to work together for developing operational work plan for each working group, which will then be considered by the Steering Committee for endorsement. However, the Steering Committee is yet to be constituted.

Workshop concluded with vote of thanks by Dr.Dieter, Director, INTEGRATION.



Figure 20: Group Works during the Workshop



Figure 21: Group Photo of the Workshop

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## Annex 1: Steering Committee for Climate Change Adaptation Project

### Background

Climate change would cast an adverse impact on water and energy resources, which have direct impact on the Industrial Production. Heat waves in combination with infrequent rainfalls will severely impact the workers and production. It is projected that Andhra Pradesh may face extreme weather events like cyclones, high frequency rainfall, prolonged droughts and heat waves, which will hamper the industrial growth in the state. Coastal cities like Visakhapatnam and Nellore are frequently hit by cyclones, which can damage entire infrastructure of the industries and industrial parks.

Andhra Pradesh and Telangana State Industrial Infrastructure Corporations (APIIC and TSIIC) had a strategic partnership with the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH since 2004 under the Indo German Development Cooperation. The Climate Change Adaptation (CCA) Project for Industrial areas has a commitment of EUR 2.5 million Euros (about Rs. 17 Crores) from the German Federal Ministry of Economic Cooperation and Development (BMZ) for a 3 year period commencing from April 2015 till April 2018. The project, assisted by the German Government, is being carried out by INTEGRATION Environment and Energy GmbH, Adelphi Consult and Ifanos Concept & Planning of Germany on behalf of the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH.

The cooperation project with Germany will help to proactively take measures in industries and industrial parks so as to adapt to climate change and overcome the associated negative impacts and risks for continuation of business by industries. The project will help develop methods and tools, develop plans for climate-resilient industrial area development and implement the measures on pilot basis in selected existing and new industrial parks in both the States. In the process, the staff of APIIC/TSIIC will be trained and the organisational capacities of APIIC/TSIIC will be strengthened.

**The project needs to be guided and monitored at the highest level for proper implementation and long term planning of climate resilient industrial parks. In this regard, a steering structure is proposed, which would be comprised of decision makers of different implementing departments of Governments of Andhra Pradesh and Telangana, which are directly related to the project.**

### Objective

The key objective of the Steering Committee is to guide, monitor and support the progress of the project and suggest appropriate measures for successful implementation and its replication.

### Steering Committee

- Secretary, Industries and Commerce, Government of Andhra Pradesh
- Secretary, Industries and Commerce, Government of Telangana

- Vice Chairman & Managing Director, Andhra Pradesh Industrial Infrastructure Corporation
- Vice Chairman & Managing Director, Telangana State Industrial Infrastructure Corporation
- Member Secretary, Andhra Pradesh Pollution Control Board
- Member Secretary, Telangana State Pollution Control Board
- Director, CCA for Industrial Parks Project, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
- Director and Head, Climate Change Adaptation Project (CCA), INTEGRATION Energy and Environment, GmbH
- Nominee of the Confederation of Indian Industries(CII), Andhra Pradesh Chapter
- Nominee of the Federation of Indian Chamber of Commerce and Industries (FICCI), Andhra Pradesh Chapter
- Nominee of the Federation of Telangana and Andhra Pradesh Chamber of Commerce & Industries (FTAPCCI), AP Chapter
- Nominee of Bulk Drugs Manufactures Association(I) (BDMA)
- Representative of the Ministry of Commerce & Industry, GoI

## Objectives of Steering Committee

- Approval of the annually updated operational plans of the project.
- Review the progress of the project activities and make suggestions as may be relevant for the successful achievement of the project objective and indicators.
- Suggest measures for any troubleshooting affecting the progress of the project during the course of the project.
- Suggest measures for enhancing implementation of the identified solutions in the project and their application/replication.
- The Steering Committee shall meet at least once on 6 months.

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## Annex 2: Working Groups (WGs) – Their Roles and Responsibilities

A **working group** comprises of subject-matter experts working together to achieve specified goals. Working groups are also referred to as *task groups*, *workgroups*, or *technical advisory groups*. Working groups of CCA project are expected to act as Sub-Steering Committee under overall Steering Committee. The Working Groups for Climate Change Adaptation for Industrial Areas in Andhra Pradesh and Telangana Project would comprise of 5 Working Groups, as indicated below:

- WG 1A: Guidelines
- WG 1B: Engineering & Planning
- WG 2: Capacity Development
- WG 3: Policy and Up-scaling
- WG 4: Implementation Support

Each working group will comprise of

- Officials of APIIC and TSIIC
- GIZ and INTEGRATION Team

(The groups can co-opt external experts from organisation like Pollution Control Boards, Institutions, Private companies, etc.)

WGs have definite tasks / objectives and need to work together to achieve project objectives and outcomes. The details of objectives and outcomes to be achieved by each WG are explained in the following sections.

### 1. Working Group 1A (WG 1A): Guidelines

#### Objectives

Developing modular guidelines for Climate Resilient Industrial Areas (modules for infrastructure and layout, water and waste water, waste management, energy, risk management)

#### Steps

- Analysis of National and State laws
- Develop methods of Risk Analysis and Assessment due to climate change through vulnerability assessment
  - Land use and layout
  - Environmental hazards
  - Socio-economic vulnerability
- To formulate Guidelines for risk assessment based on experiences from pilot industrial parks covering
  - New Industrial Parks
  - Existing Industrial Parks
- Link the learning experiences to Engineering & Planning (WG 1B), Capacity Building (WG 2) and Policy & Up-scaling (WG 3) and share the knowledge with all other stakeholders

#### Outcome

Modules of the training programme are “Risk Analysis and Management, Climate resilient Planning”



## 2. Working Group 1B (WG 1B): Engineering and Planning

### Objectives

To develop measures for Climate-resilient implementation of infrastructure

### Steps

- Develop implementation plan from Guidelines (WG 1A)
- Plan and develop technical implementation measures to
  - Retrofit and Adapt infrastructure designs
  - Prepare Checklists for Planning and Engineering Standards
  - Develop plans for implementation of Climate Resilient Infrastructure
- Link the learning experiences to Guidelines (WG1A), Capacity Building (WG 2), Policy (WG 3) and Implementation (WG 4) and share the knowledge with all other stakeholders

### Outcome

Modules of the training programme are “Implementation of Climate Resilient Measures”

## 3. Working Group 2 (WG 2): Capacity Development

### Objectives

To develop capabilities (policy and technical aspects) for different stakeholders, which include organisations and individual.

### Steps

- Understanding and assessment of training needs for different target groups having Technical, Planning and Regulatory background,
- Covering aspects of Compatibility between economic growth, reduction of climate risks and Sustainable development;
- Understand direct and indirect benefits of climate adaptation; best practice examples; policies, guidelines and standards
- Link the learning experiences to Guidelines (WG 1A), Engineering & Planning (WG 1B), Policy (WG 3) and Implementation (WG 4) and share the knowledge to all other stakeholders

### Outcomes

Learning of different versions and test-applications of the developed modules for

- Risk analysis and management
- Climate resilient planning and retrofitting of industrial parks
- Implementation of Climate Resilient Measures

These should lead to development of certified “Climate Safety Officer”

#### 4. Working Group 3 (WG 3): Policy and Up-scaling

##### Objective

To develop policy for Climate Change Adaptation for Sustainable Industrial Development

##### Steps:

- Collection, interpretation and compilation of clear and convincing examples of
  - Climate Change Adaptation Plans,
  - Financing mechanisms applied and implemented (or implementable) retrofitting measures,
  - National and international lessons learnt, and
  - Best practices
- Formulate and elaborate a policy paper, outlining the economic and social needs for CCA and Disaster Management
- Promote consideration of climate risks in investment planning for industrial development
- Support ministries of Central Government (DIPP and MoEF & CC) and other industrial federations / associations, etc., for up-scaling and implementation

##### Outcomes

- Development of Rules, Regulations and Processes for Climate Resilience in Industrial Development

#### 5. Working Group 4 (WG 4): Implementation and Support

##### Objectives

To plan and implement Climate Resilient Industrial Parks (New and Existing IPs)

##### Steps

- Preparatory work
  - Supplementing the guidelines and handbook developed under WG 1A & WG 1B
  - Development of different financing options for creating infrastructure measures
  - Selection of industrial areas which are able and willing to start pilot implementations
  - Identification and development of possible adaptation measures and prioritisation of measures considering risk, vulnerability and cost-benefit
- Climate resilient planning for new and retrofitting of existing industrial parks
- Prepare, support and supervise the implementation considering all regulations

##### Outcomes

Technical assistance and support for the planning, development, construction and operational phases of climate resilient measures

## Roles and Responsibilities of Working Groups (WGs)

- Each Working Group should consist of 4-5 officers and be headed by a senior officer at CE/CGM/GM/ZM level, supported by DGM/DZM/Manager/ Environmental engineer
- Active participation and providing inputs to achieve the objectives and outcomes.
- Collect all the necessary data and information from various stakeholders.
- Plan and develop methodologies for successful implementation of the tasks / objectives.
- Identify Spokesperson for coordination within the group, senior management and Steering Committee for sharing information and feedbacks.
- Coordination with other officers and working groups within and associated organisations.
- Manage and supervise different technical, regulatory and learning processes.
- Working groups will meet once in a month and monitor / assess the progress of the work and report to Steering Committee to monitor the progress and give guidance for taking further steps.

The Working Groups constituted from APIIC and TSIIC nominees are as follows;



<b>Working Group Nominees</b>	
<b>WG1A: Guidelines</b>	
<b>APIIC</b>	<b>TSIIC</b>
Ramanjaneyulu,CGM(AM)	Vinod Kumar, ZM , Cyb
G. Sudarsan Babu, OSD(Prj)	Shravan Kumar, DZM, Shb
B. Maheswararao, ZM(E)	Madhu, M (E)
S. Mani Bhaskar,DGM(E)	Kavitha, M (AM)
K. Sreenivasulu,M(E)	Raj kiran, EE
S. Muni Krishna Reddy,(EE)	
<b>WG1B: Engineering &amp; Planning</b>	
<b>APIIC</b>	<b>TSIIC</b>
R.Chenchaiah, CE-I	P.V. Rao , GM(E)
HK.V.Ramana Reddy,ZM(E)	K. Shyam Sunder, ZM(E)
KMNRV.Prasad,DZM(E)	D. Ravi, ZM(E)
A.Varaprasad Rao,M(E)	Sita Ram, DZM(E)
K.Madhavi,M(AM)	Santosh Rama, DZM(E)
B.V.Siva Reddy,EE	Ram Mohan Raju, M(E)
	Nanu, EE
<b>WG2: Capacity Development</b>	
<b>APIIC</b>	<b>TSIIC</b>
M.Siva S Reddy,GM(P&A)	Madhavi, ZM(AM)
K.Vijaya Kumari,GM(E)	Leelavathi. DZM(AM)
T.Visweswararao,DGM(E)	Padmaja, M(AM)
Sudhakar,DZM(E)	Vijaya, M(AM)
A.Kishore, M(E)	Archana, EE
V.Subba Reddy,EE	

WG3: Policy Development	
APIIC	TSIIC
Ch.S.S.Prasad,CGM(P)	Kalavathi, DZM(AM)
D.Venkateswararao,DZM(E)	Naga Raju, M(AM)
G.Nagabhusanam,DGM(E)	Ajmeer Swamy, M(AM)
M.Murali Mohan,DZM(E)	Vijay Kumar, M(AM)
B.Haridhara Rao,M(E)	Sam Ratnakar Philips, EE
D.V.Suresh Babu, EE	
WG4: Implementation Support	
APIIC	TSIIC
Ch.VVS Prasad ,CE-II	Sunitha Bai, GM(AM)
N. Mastanaiah, GM(F)	Srinivas Phani GM(F)
S.Chand Basha, OSD(EMP)	Rathan Rathod, DZM(E)
P.Nageswara Rao, DGM(E)	Ramu, M(F)
Ch.GNS.Prakashrao,DGM(AM)	J Vijay Kumar Reddy, EE
Y.N.Devakantamma,M(E)	

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## Annex 3: Draft Operational Plan

	Plan of operations																				
	Activity	Sub-Activity	Progress	2015								2016						Responsible	Resources	Remarks	
				A	M	J	J	A	S	O	N	D	J	F	M	A	M				J
Output A	Development of guidelines methodologies and tools Indicator A1) Three guidelines illustrating the methodology on how to integrate results of the risk analysis in planning and decision-making processes have been developed. Indicator A2) A handbook for engineers on the climate-resilient implementation of infrastructure measures has been de-veloped.																				
1.1	Establish an overview and analysis of all relevant (national and state) norms, standards, policies, laws and by-laws and their interrelation		Comprehensive overview table compiled				x												APIIC, TSIC		
1.1.1	National Laws and Policies		Matrix on related National policies							x									APIIC, TSIC, SSV, HM, RG	LC	
1.1.2	State Laws and Policies		Matrix on related state policieis							x									APIIC, TSIC, SSV, HM, RG	LC	
1.1.3	Questionnaire Survey of Industrial estates							x	x										APIIC, TSIC		



1.2	Develop agreed methods for risk analysis and assessment with special focus on climate change effects including triggered technical disasters	Shortlisting of Industrial Parks for CCA	At least 10 IP from each state are selected						x	x									APIIC, TSIIC			
1.2.1		Establishing 2 Working Groups: <b>WG Guidelines</b>	WGs operational (for each state)							x									APIIC, TSIIC			
1.2.2		<b>WG Engineering and Planning</b>	WGs operational (for each state)																APIIC, TSIIC			
1.2.3		Drafting	Draft methods for risk analysis and assessment agreed for piloting																DBr, SSV, HM, RG	C		
1.2.4		THH Plantation Programme	Planning of THH programme		x															TSIIC, DBr, SSV, HM, RG	LC	
			Case study on IT Parks		x															TSIIC, DBr. SSV, HM, RG	LC	
	Development of Plantation Guidelines			x															APIIC,TSI IC, DBr. SSV, HM, RG	LC		
	Implementation of Plantation for the year 2015					x	x	x											TSIIC			
	Training and Revision of Guidelines after pilot for year 2016					x													TSIIC			
1.2.5	Revision after pilot application under Output 4	Methods approved and included in										x						APIIC, TSIIC				



		Discussions with Various stakeholders including industries	IALA committee agree to take up CCA and development of revised master plan																	APIIC, TSIIC			
1.3.4		Disaster Management																		APIIC, TSIIC			
1.3.5		Revision after pilot application under Output 4	3 Guidelines approved and included in standard approach																	APIIC, TSIIC			
1.4	Develop a technical handbook on climate-resilient implementation of infrastructure measures for planners and engineers including checklists and developed planning and engineering instructions and standards	Drafting the handbook	Draft manual agreed for piloting																	APIIC,TSI IC, DBr. SSV, HM, RG	C		
1.4.1		Planning of handbook	Contents are developed																	APIIC,TSI IC, DBr. SSV, HM, RG	LC		
1.4.2		Coalation of international and national case studies and detailing the pilot study area	Draft handbook -																		APIIC,TSI IC, DBr. SSV, HM, RG	LC	
1.4.3		Revision after pilot application under Output 4	manuals approved																		APIIC,TSI IC, DBr. SSV, HM, RG	LC	





		Participation in Industrial Environment Improvement Drive IEID 2015	Visit to different industrial parks and awareness generation																					DBr. SSV, HM, RG	LC	
		Revision at the end of the project	Materials revised																			DBr	C			
2.3	Finalization of the 3 training modules delivered by WG 1 and 2 including development of related e-learning modules.	Module 1 "Risk analysis and management"	Module ready for implementation	December 2016																		APIIC, TSIIC				
2.3.1		Module 2 "Climate resilient planning and retrofitting of industrial parks"	Module ready for implementation	December 2016																		APIIC, TSIIC				
2.3.2		Module 3 "Implementation of Climate Resilient Measures"	Module ready for implementation	December 2016																		APIIC, TSIIC				
2.4	Execution of the training modules to build the required capacities for implementation and application of the results of the other work packages.		Training courses executed as per implementation plan																					APIIC, TSIIC	LC	





3.2	Setting of Policy matrix	Identification of pros/cons of existing policies	Development of policy matrix				X	X	X	X										DrB, SSV, HM, RG	1 LC	
3.3	Elaborate a policy paper, outlining the (economic and social) need for Industrial Climate Change Adaptation Plans and Disaster Risk Management and linking the adaptation to climate change to existing instruments of DRM	Collection, interpretation and compilation of clear and convincing examples of CCA-Plans	Case study on convincing CCA Plans including analysis and recommendations available																	DBr. SSV, HM, RG	LC	
3.4		Obtain agreement with state or private sector organisation key stakeholders on the general approach and milestones for integrating climate adaptation into their strategies / policies	Agreement with partner organizations fixed																	APIIC, TSIIC, DBr, SSV, HM, RG	LC	
3.5		Elaborate the policy paper																			APIIC,TSI IC	C
3.5.1	Promote the adoption of the policy paper, consideration of Climate Risks and the up-scaling of the project results	Promote the adoption of the policy paper through at least two state governments or private sector organisations like industrial associations	Policy paper adopted																	APIIC,TSI IC		

3.5.2		Promote the consideration of climate risks in investment planning for industrial development	Consideration of CC risks and CCA investments officially adopted in investment planning																	APIIC,TSI IC, Banks			
3.5.3		Support national ministries DIPP and MoEF as well as national level industry associations like CII in their endeavour to ensure upscaling and replication of project results and findings to other states and sectors																		APIIC, TSIIC, SSV, HM, RG	LC		
Out put D	Support planning and implementation Indicator D1: A draft for a national or regional industry development plan that considers climate risks has been developed. Indicator D2: Three climate-resilient development and retrofitting plans for industrial areas have been drafted and priority measures have been identified.																						
4	Establishing Strategic Partnerships		Partners Identified					X	X											APIIC,TSI IC			
4.1	Identification of strategic partnerships for the project	discussion / interaction with different institutions, organizations, PPP for strategic partnership	List of partners for strategic partnership						X	X										DBR, SSV, HM, RG	LC		

4.2	Preparatory work	Establishing a Working Group "Implementation"	WG operational	After April 2017														APIIC,TSI IC		
4.2.1		Supplementing the guidelines and handbook developed under output process A															APIIC,TSI IC	LC		
4.2.2		Development of different financing options for infrastructure measures in cooperation with relevant financing institutions																APIIC,TSI IC	LC	
4.2.3		Selection of industrial areas able and willing to start pilot implementations in cooperation with the industrial development agencies																APIIC,TSI IC		
4.2.4		Negotiating and signing agreements (MoU) with the respective IALAs (in case of existing parks) or the developer (industrial	MoUs signed															APIIC,TSI IC		

[illegible]





## Color Codes for the timing:

more than 3 months

LC = Local  
Consultant

2-3 months

C = Foreign  
Consultant

less than one month

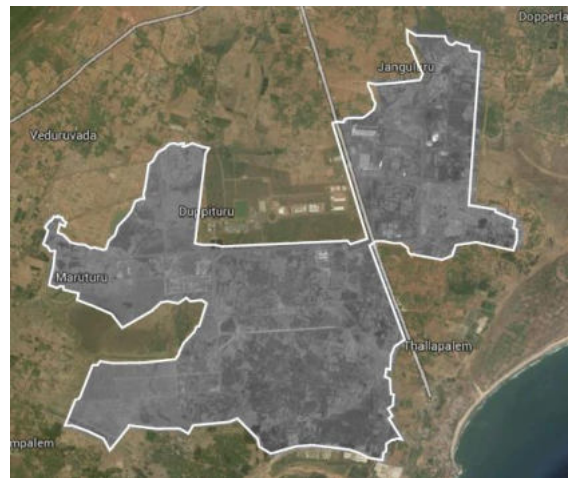
DBr = Dieter  
Brulez, HM =  
Rhishikesh, NN =  
Not Nominated

critical ☹

done 😊

## Annex 4: Programme Schedule

### Planning Workshop on Climate Change Adaptation for Industrial Parks of Andhra Pradesh and Telangana States



**Date:**  
24 – 26, August, 2015

**Venue:**  
Hotel Leonia Holistic Destination, Hyderabad

## Programme Schedule (Tentative)

### Day 1: August 24, 2015; Monday

14:00 hrs	▪ Bus Pick-up from APIIC / TSIIC to Hotel Leonia
17:00 hrs	▪ Arrival at Leonia Hotel and Check-in
18:00 hrs	▪ Team Building Activities
20:30 hrs	▪ Dinner

### Day 2: August 25, 2015; Tuesday

06:30 hrs	Meeting at lounge
06:30 – 07:30	▪ Group 1 : Yoga / Meditation ▪ Group 2 : Cycling
07:30 – 09:00	Fresh-up and Breakfast

09:00 – 10:00 hrs	<b>Inauguration</b> <ul style="list-style-type: none"> <li>▪ Welcome Address by Dr. Dieter Brulez, Head, INTEGRATION</li> <li>▪ Special Address by Mr. E.V. Narasimha Reddy, VC &amp; MD, TSIIC</li> <li>▪ Special Address by Mr. K. Satyanarayana, VC &amp; MD, APIIC</li> <li>▪ Special Address by Dr. S.S. Varaprasad, Senior Policy Advisor, INTEGRATION</li> </ul>
10:00 – 11:00 hrs	▪ Introduction to Climate Change Adaptation Project
11:00 – 11:15 hrs	<b>Health Break</b>
11:15 – 12:15 hrs	▪ Climate Financing Avenues and Approaches
12:15 – 13:00 hrs	▪ Introduction to CCA Working Groups
13:00 – 14:00 hrs	<b>Lunch</b>
14:00 – 15:15 hrs	▪ Group Activity 1: Cooperation Landscape
15:15 – 15:30 hrs	▪ Health Break
15:30 – 16:45 hrs	▪ Group Activity 2: Strategy
16:45 – 17:00 hrs	<b>Sum-up of the Day</b>
18:00 – 19:00 hrs	<b>Team Building Activities</b>
19:30 hrs Onwards	<b>Cocktail Dinner</b>

### Day 3: August 26, 2015; Wednesday

06:15 hrs	Meeting at lounge
06:30 – 07:30 hrs	<ul style="list-style-type: none"> <li>Group 1 : Yoga / Meditation</li> <li>Group 2 : Cycling</li> </ul>
07:30 – 09:00 hrs	Fresh-up and Breakfast

09:00 – 09:15 hrs	Introduction to the sessions
09:15 – 11:00 hrs	Group Activity 3: Processes
11:00 – 11:30 hrs	<b>Health Break</b>
11:30 – 13:00 hrs	Group Activity 4: Steering Structure / Learning & Innovation
13:00 – 14:00 hrs	<b>Lunch Break</b>
14:00 – 15:00 hrs	Planning of Future Activities and Summary
15:00 – 15:30 hrs	<b>Tea Break</b>
15:30 – 16:30 hrs	<b>Feedback and Conclusions</b> <ul style="list-style-type: none"> <li>Summary of the 2-day Workshop by Dr. Brulez, Head, INTEGRATION</li> <li>Feedback from participants</li> <li>Concluding Remarks by Shri. S.S. Rawat, IAS, Secretary to Govt. &amp; CIP, Department of Industries and Commerce, GoAP</li> <li>Concluding Remarks by Shri. Arvind Kumar, IAS, Secretary (FAC)(Energy Dept.), Industries and Commerce, GoTS</li> </ul>
16:30 hrs	<b>Departure to TSIIC / APIIC Office by Bus</b>





## Annex 5: Participant List





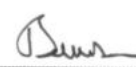

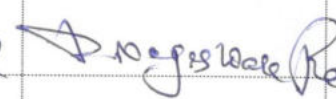
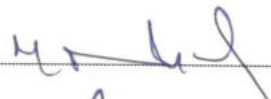




## **Annex 6: Group Work Represented in Terms of Capacity Works Tool**




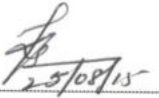

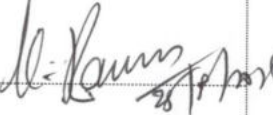
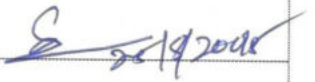


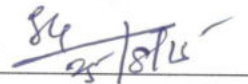
**Planning Workshop for 5 Working Groups on 25<sup>th</sup> & 26<sup>th</sup> August 2015 at Hotel Leonia,  
Shameerpet, Hyderabad**

**DAY-I**

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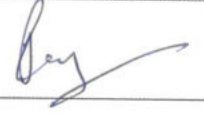
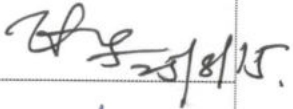
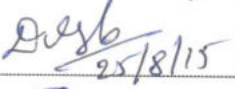
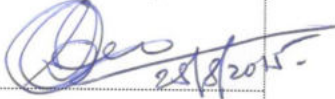
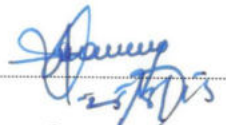
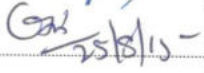

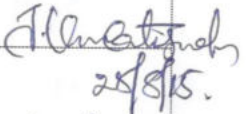
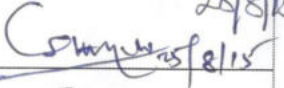
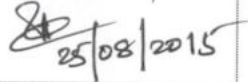
# DAY-I

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# DAY-I

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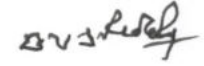
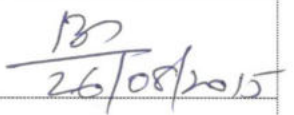

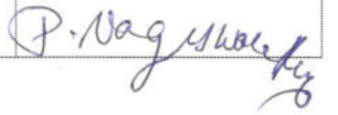


## DAY-I

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**Planning Workshop for 5 Working Groups on 25<sup>th</sup> & 26<sup>th</sup>, August 2015 at Hotel Leonia,  
Shameerpet, Hyderabad**

**DAY-II**

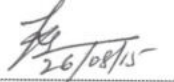


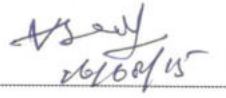


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9	M. Kavitha	MAm)	TSIIC	mkavitha@tsiic.telangana.gov.in	9505158434	
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# DAY-II






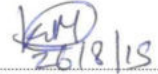




S.NO	NAME	DESIGNATION	ORGANISATION	EMAIL ID	MOBILE NO.	SIGNATURE
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19	M. Murali Mohan	DZM (E)	APIIC Ltd.	m.muralimohan@apic.in	96670 7733	M. Murali Mohan 26/8/15
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## DAY-II

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25	B. Sudhakar Rao	DZMB	APIIC	bsudhakar.rao@apiic.in	9948392425	 26/8/15
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27	V. Subba Reddy	EE	APIIC	subbareddy.vvv@gmail.com	9985535149	 26/08/15
28	M. Padmaja	M(E)	TSIIC		9912340874	
29	M. Leelavathi	DZM(Am)	TSIIC	mleelavathi@tsiic.telangana.gov.in	9542185552	
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# DAY-II

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38	B. MADHU	M (E)	n	bmadhu@tsic.telangana.gov.in	9951241115	
39	P. Sravan Kumar	D2M (E)	TSIIC	psravan Kumar@tsic.telangana.gov.in	9010204294	
40	Dr. Rajani Gault	Technical Advisor	INTEGRATION	rgault@integration.org	9618280045	



## DAY-II

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# **GROUP 1A: GUIDELINES**

# Strategy

## Strategic Objectives:

Modular Guidelines for Climate Resilient Industrial Areas

## Intended Results:

Modules of the training programme “Risk Analysis and Management, Climate resilient Planning”

### Key Strategies & Priorities:

- Involvement of Cooperation Partner(s) in Identification of Project Priorities
- Assessment of Strength and Weakness
- Development of concepts for customised solutions & consultations

### Critical aspects for success & risks:

- Active Steering Structure
- Working Group Roles and Responsibilities
- Support of partner organizations AP / TS IIC and other Stakeholders
- Identification of Appropriate Institutions
- Capacity Development of Stakeholders'

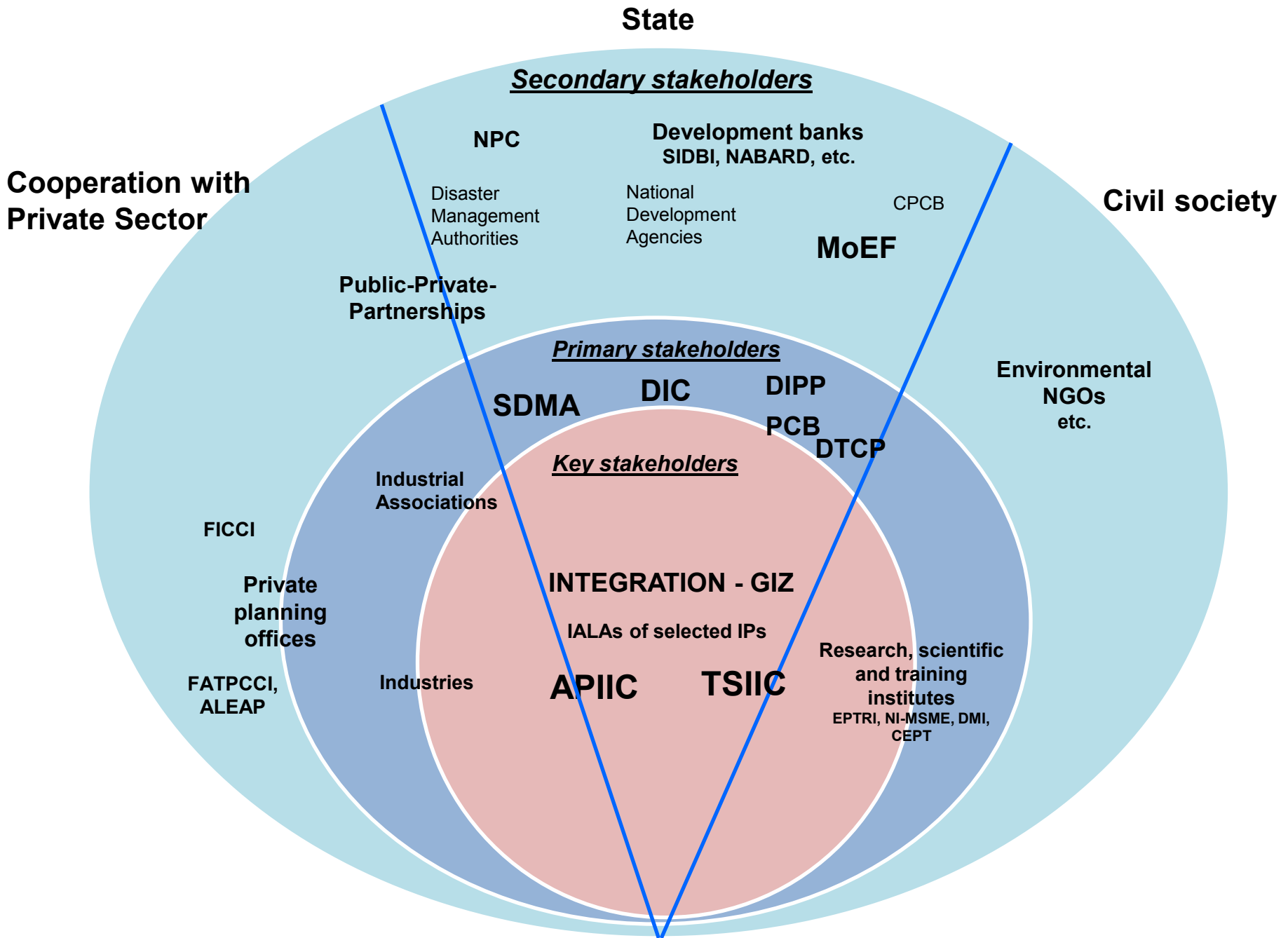
### Strategic Indicators

- Shortlisting of Industrial Parks (10 & 2 from each state)
- Draft Guidelines for Existing and New Industrial Parks covering Risk Analysis and Implementation Methodology
- Three guidelines illustrating the methodology on how to integrate results of the risk analysis in planning and decision-making processes have been developed.
- Modular Guideline for Risk Analysis

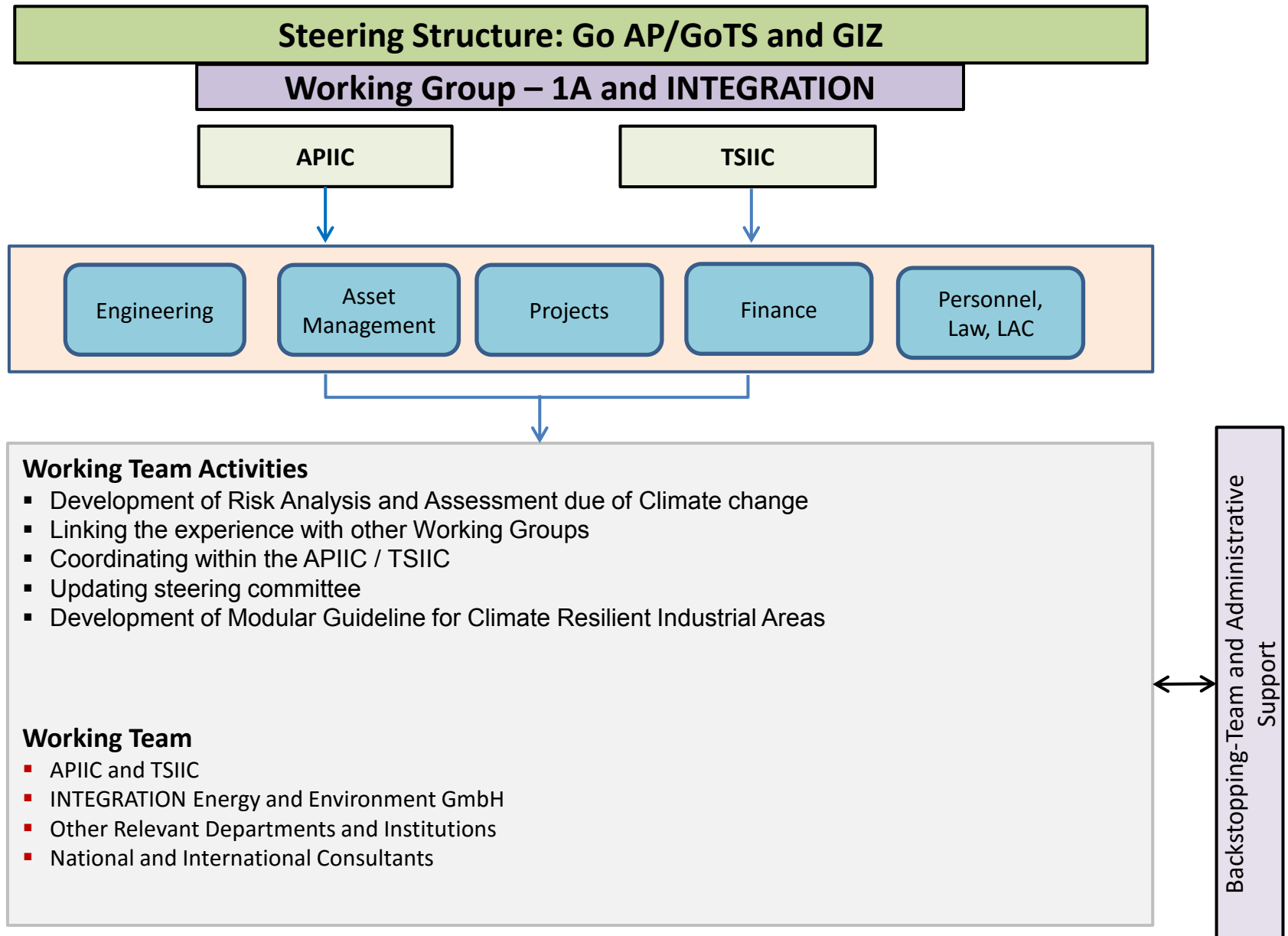
### Strategic Planning & Budgeting:

- Understanding and Elaborating Steering and Auxiliary Processes
- Government / Industries / Others Budget

# Cooperation Landscape



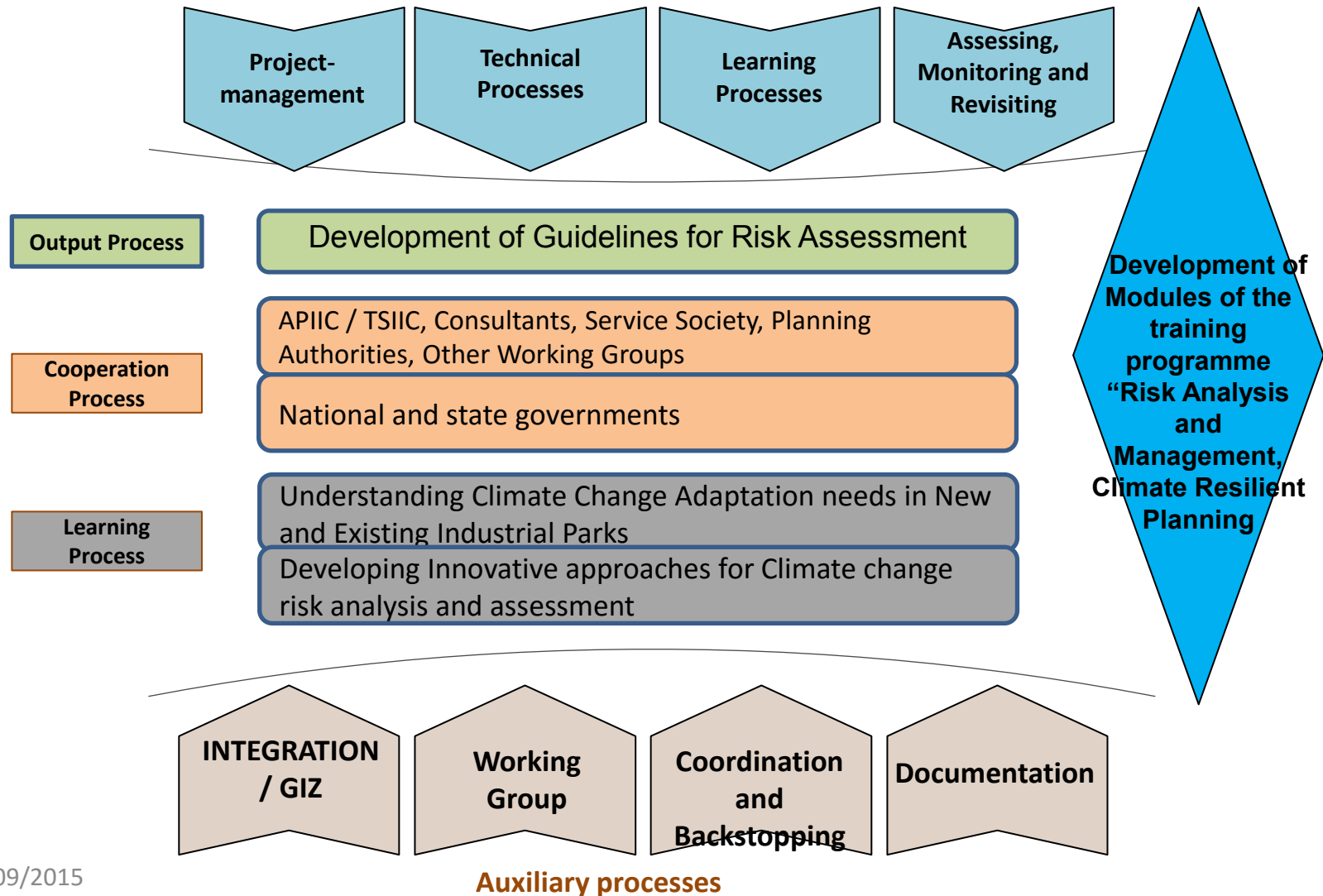
# Sub- Steering Structure





# Processes

## Steering processes



# **GROUP 1B: ENGINEERING AND PLANNING**

# Strategy

## Strategic Objectives:

To develop Climate-resilient implementation of infrastructure measures (for engineers & planners)

## Intended Results:

Modules of the training programme “Implementation of Climate Resilient Measures”

### Key Strategies & Priorities:

- Involvement of Cooperation Partner(s) in Identification of Project Priorities
- Assessment of Strength and Weakness
- Development of concepts for customised solutions & consultations

### Critical aspects for success & risks:

- Active Steering Structure
- Working Group Roles and Responsibilities
- Support of partner organizations AP / TS IIC and other Stakeholders
- Identification of appropriate institution
- Capacity Development of Stakeholders'

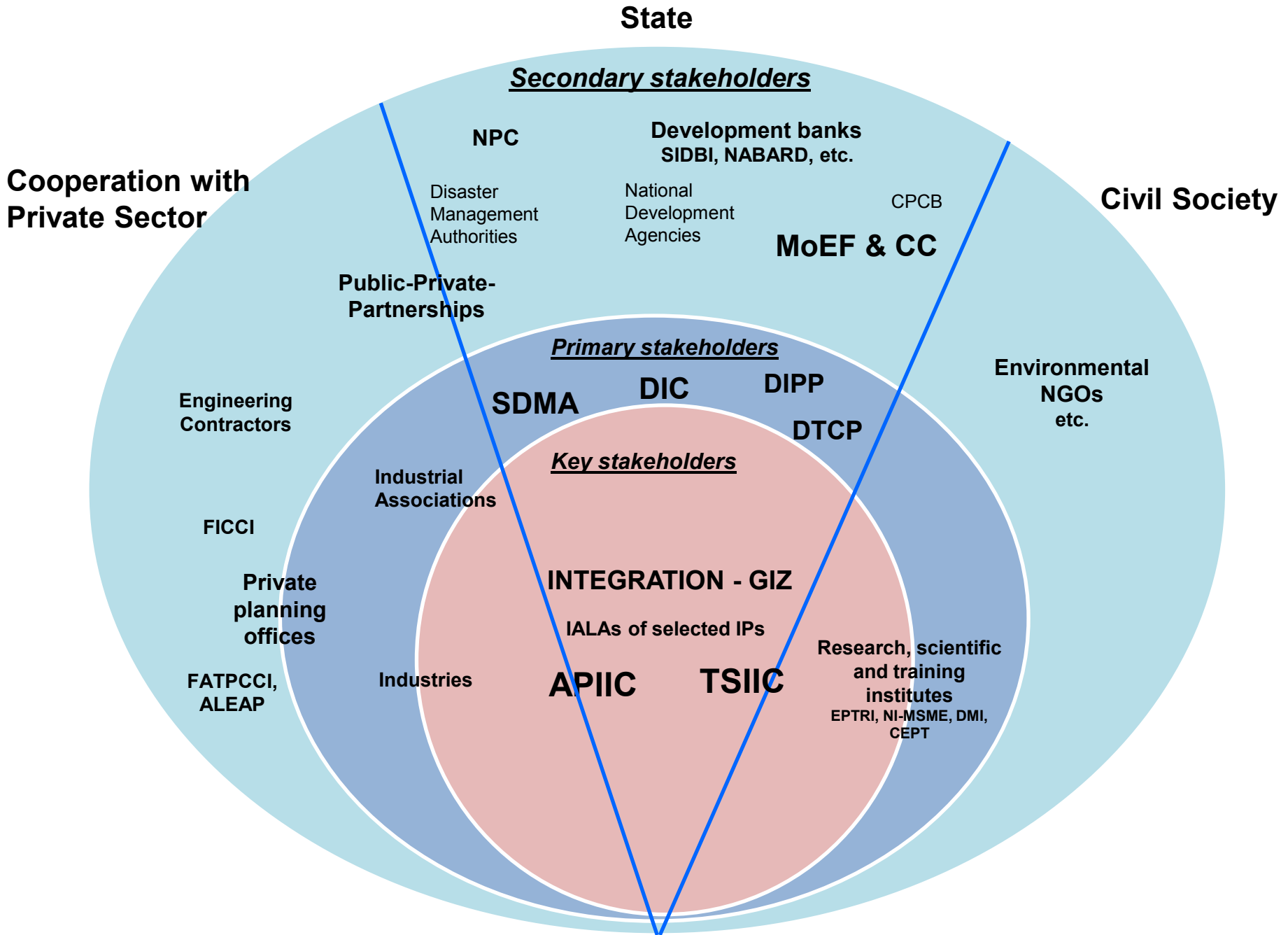
### Strategic Indicators

- Development of Plan based on Guidelines (WG10)
- Understanding the requirements for both New and Existing Industrial Parks
- Developing Contents of the Handbook
- Pilot Application and Improvements
- Three guidelines and handbook illustrating the methodology on how to integrate results of the risk analysis in planning and decision-making processes have been developed.

### Strategic Planning & Budgeting:

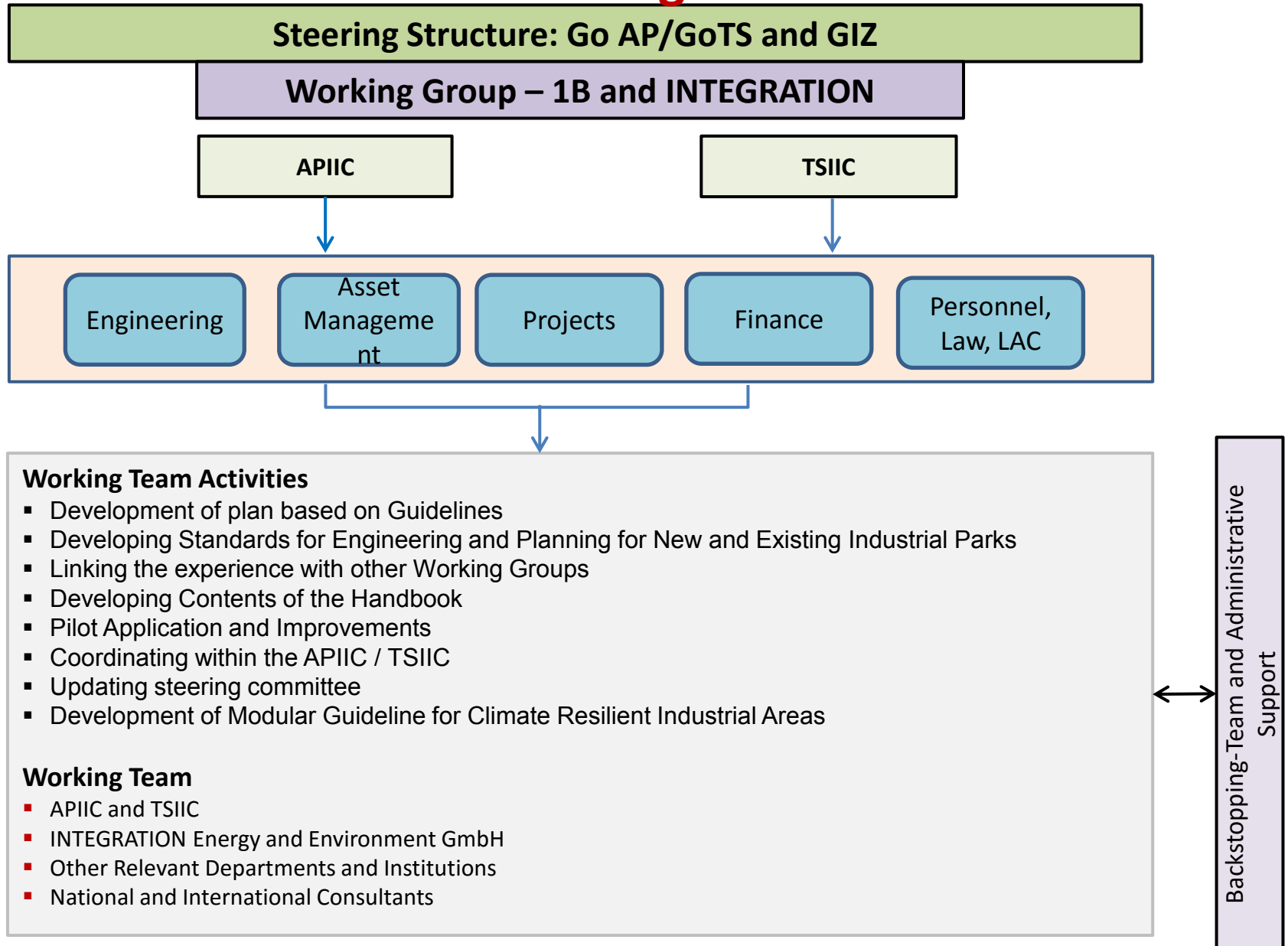
- Understanding and Elaborating Steering and Auxiliary Processes
- Government / Industries / Others Budget

# Cooperation Landscape



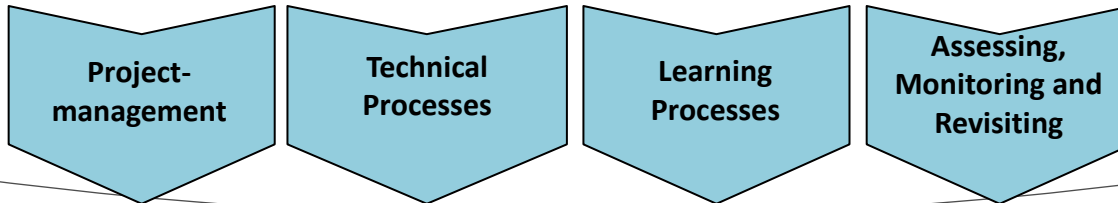


# Sub- Steering Structure



# Processes

## Steering processes



### Output Process

Development of Standards for Engineering and Planning

### Cooperation Process

APIIC / TSIIC, Consultants, Service Society, Planning Authorities, Other Working Groups

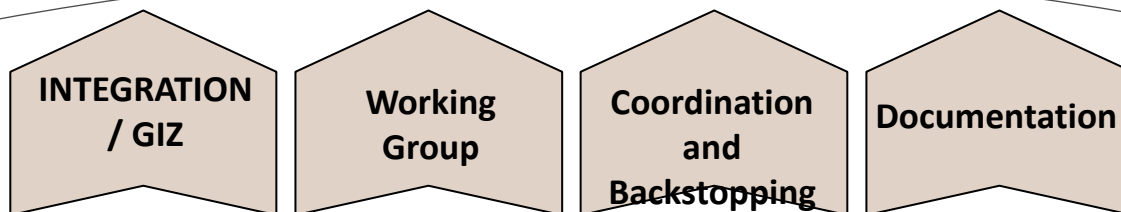
National and state governments

### Learning Process

Incorporation of Standards for Engineering and Planning considering Climate Change Adaptation

Developing planning approaches for New and Existing Industrial Parks

Development of Modules on Climate Resilient Planning and retro-fitting of IPs and Implementation of Climate Resilient Measures



## Auxiliary processes

## **GROUP 2: CAPACITY BUILDING**

# Strategy

## Strategic Objectives:

To develop capacities of different stakeholders covering Policy, Organizations, Individual

## Intended Results:

Learning versions and test-applications of the developed modules

- Risk analysis and management
- Climate resilient planning and retrofitting of industrial parks
- Implementation of Climate Resilient Measures

## Key Strategies & Priorities:

- Involvement of Cooperation Partner(s) in Identification of Project Priorities
- Assessment of Strength and Weakness
- Development of concepts for customised solutions & consultations

## Critical aspects for success & risks:

- Active Steering Structure
- Working Group Roles and Responsibilities
- Support of partner organizations AP / TS IIC and other Stakeholders
- Capacity Development of Stakeholders'
- Identification and Initiation of Financial Resources

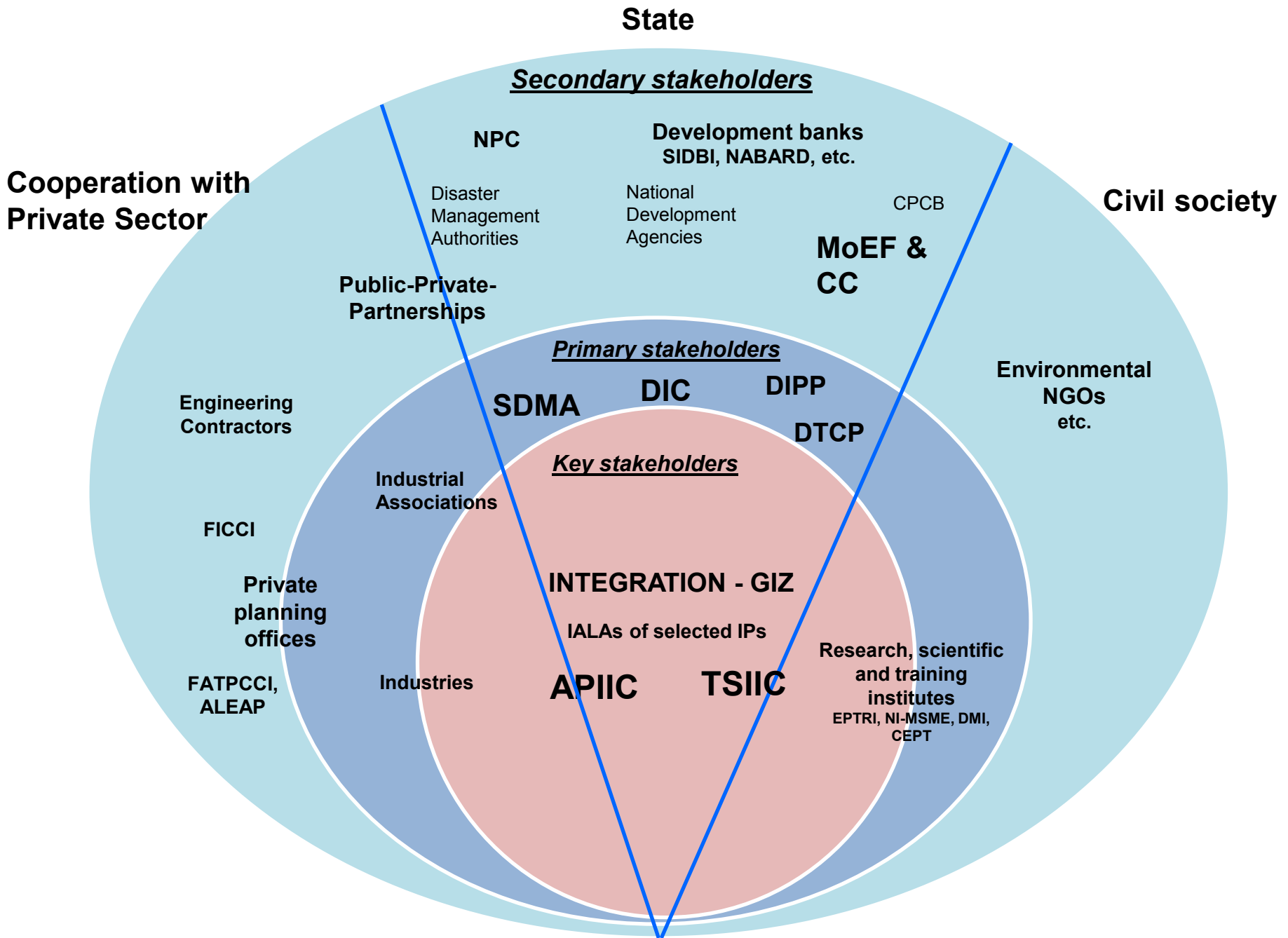
## Strategic Indicators

- Assessment of Capacity Building needs for different stakeholders
- Development of Modules for Guidelines and planning and Engineering Standards for CCA.
- Certification Course on Certified Safety and Resilience Officer
- 70% of the key personnel have passed the final test of the training session on how to use the risk analysis.
- Indicator B2: 70% of the site managers have passed the final test of the training session on how to implement climate-resilient measures.

## Strategic Planning & Budgeting:

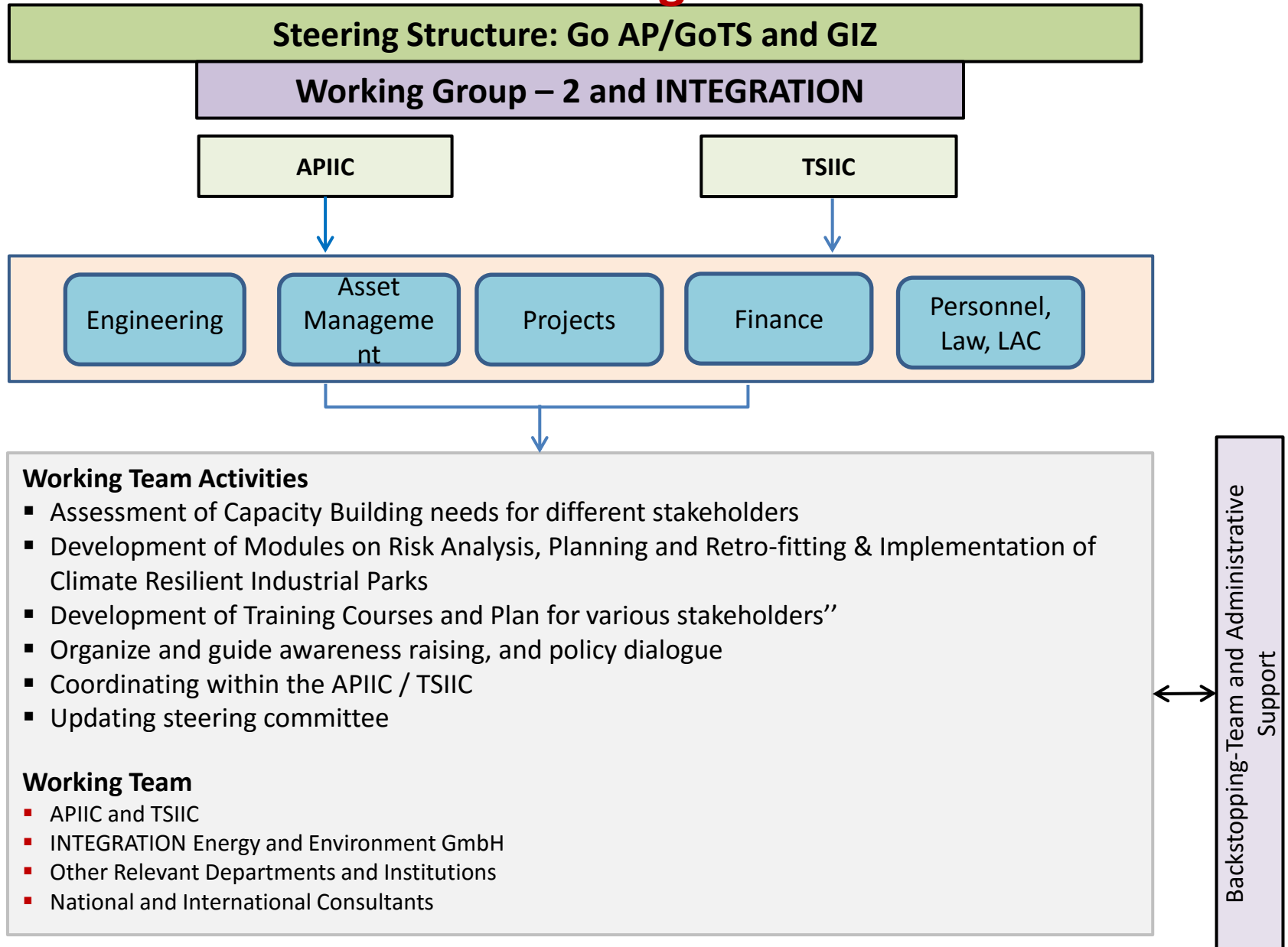
- Understanding and Elaborating Steering and Auxiliary Processes
- Government / Industries / Others Budget

# Cooperation Landscape



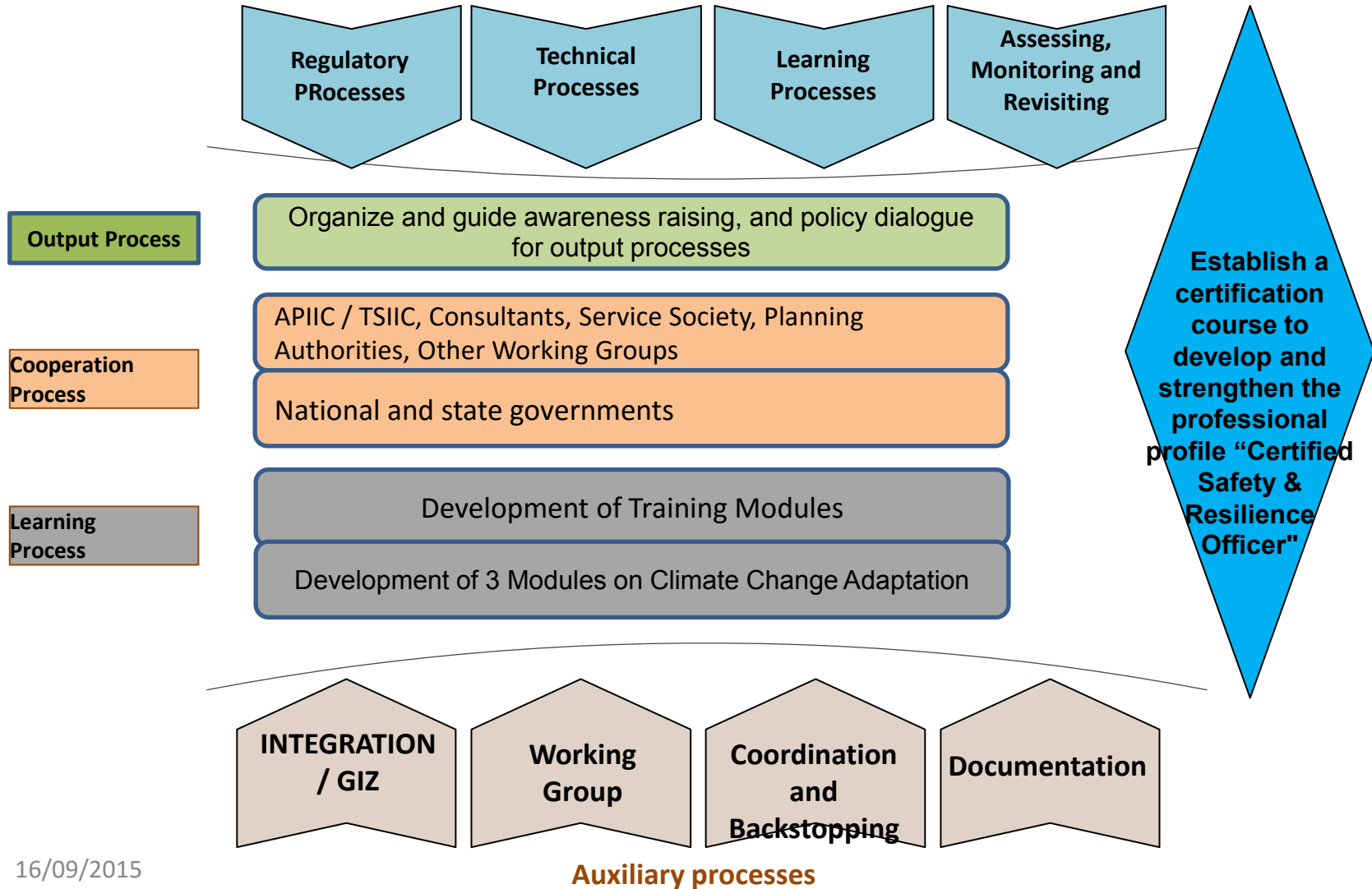


# Sub- Steering Structure



# Processes

## Steering processes



## **GROUP 3: POLICY AND UP-SCALING**

# Strategy

## Strategic Objectives:

To develop policy for Climate Change Adaptation for Sustainable Industrial Development.

## Intended Results:

Development of Rules, Regulations and Processes for Climate Resilience in Industrial Development

### Key Strategies & Priorities:

- Involvement of Cooperation Partner(s) in Identification of Project Priorities
- Assessment of Strength and Weakness
- Development of concepts for customised solutions & consultations

### Critical aspects for success & risks:

- Active Steering Structure
- Working Group Roles and Responsibilities
- Support of partner organizations AP / TS IIC and other Stakeholders
- Capacity Development of Stakeholders'
- Identification and Initiation of Financial Resources

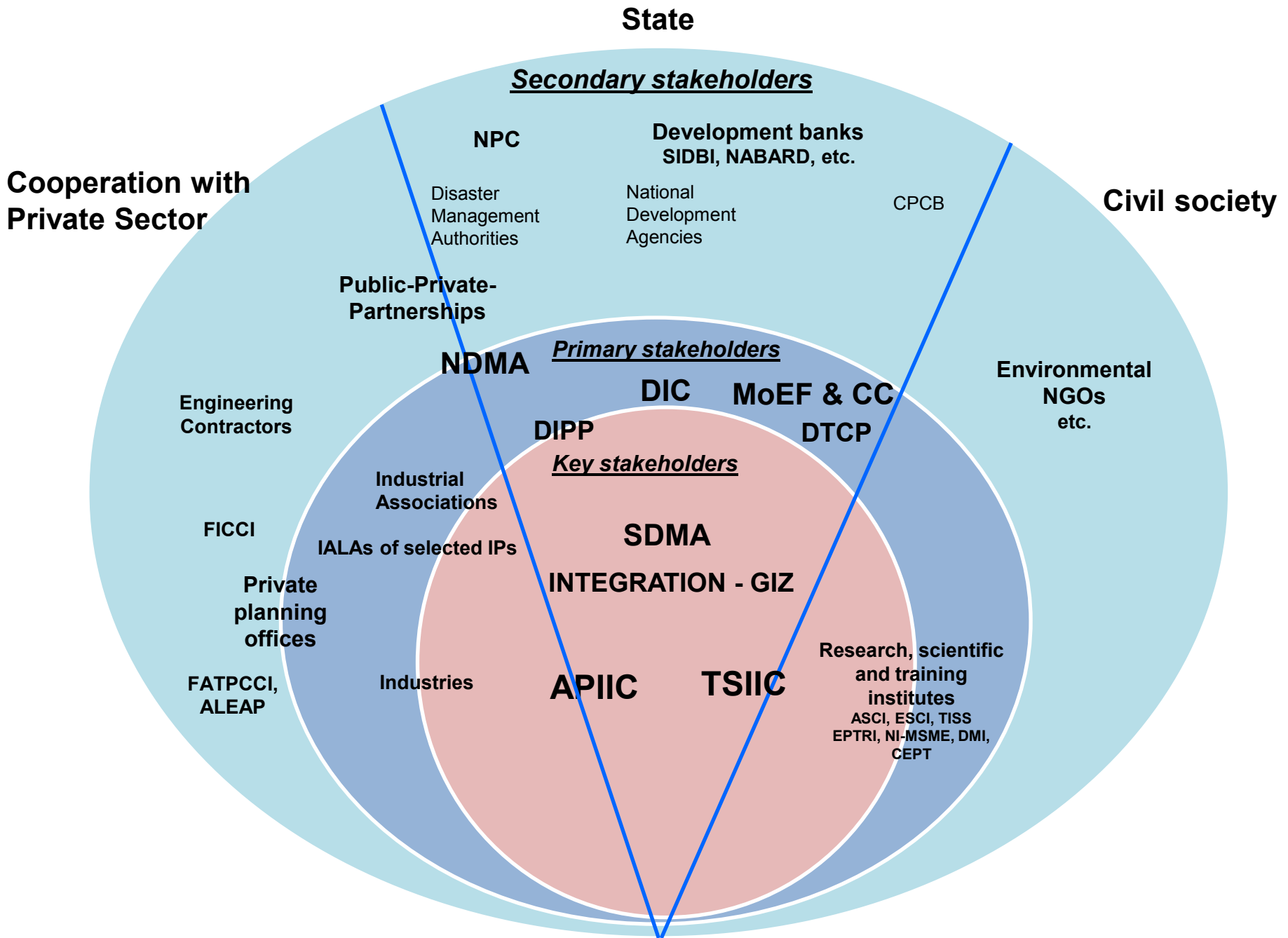
### Strategic Indicators

- Promote the consideration of climate risks in investment planning for industrial development
- Proposals on how to consider climate risks in two regulations that ensure climate adaptation have been developed
- Two state level government or private sector organisations have developed proposals on how to integrate climate adaptation in their strategies.
- Support national ministries DIPP and MoEF as well as national level industry

### Strategic Planning & Budgeting:

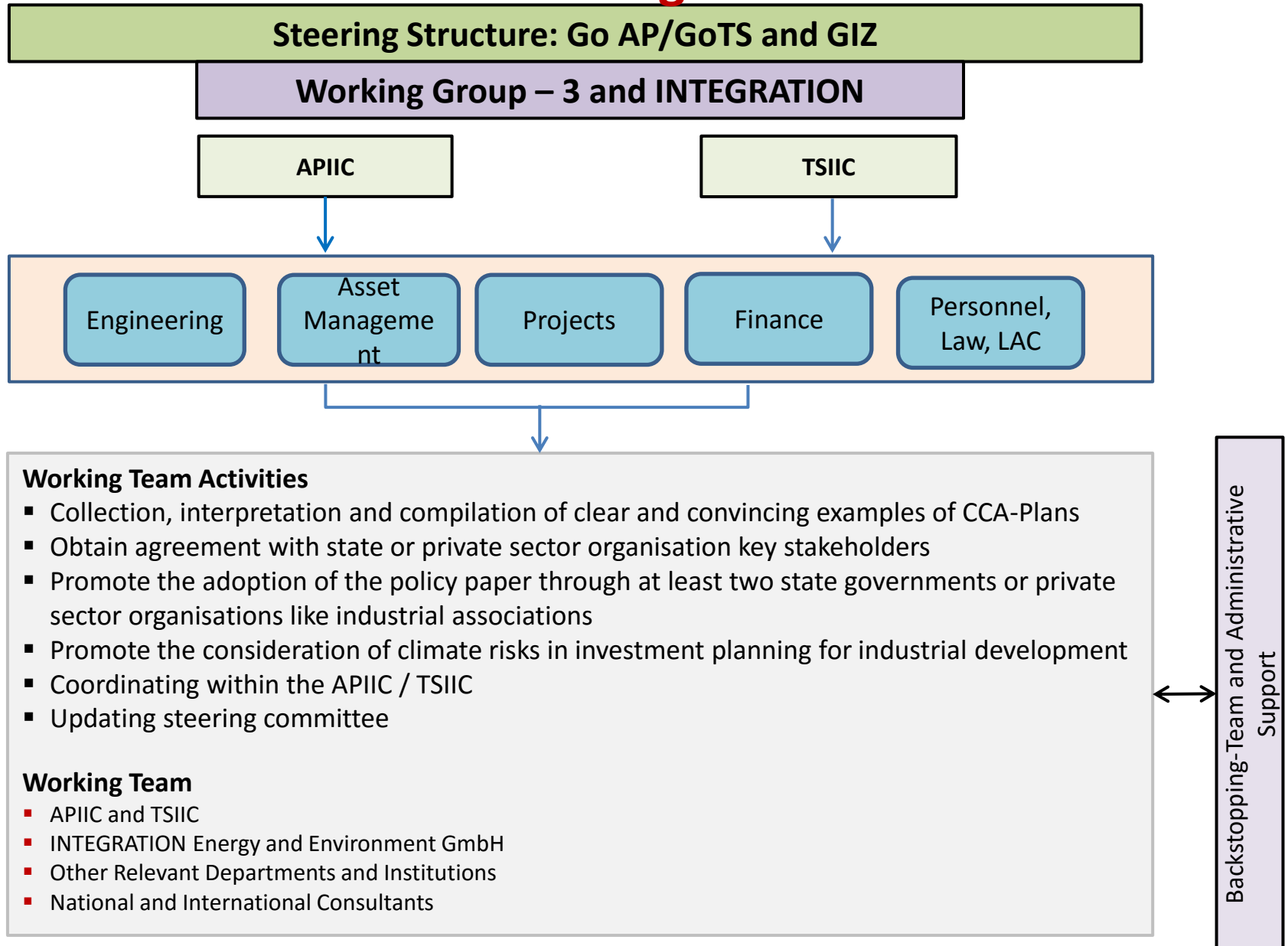
- Understanding and Elaborating Steering and Auxiliary Processes
- Government / Industries / Others Budget

# Cooperation Landscape





# Sub- Steering Structure



# Processes

## Steering processes

Regulatory  
Processes

Technical  
Processes

Learning  
Processes

Assessing,  
Monitoring and  
Revisiting

**Output  
Process**

Promote the adoption of the policy paper through at least two state governments

Promote the consideration of climate risks in investment planning for industrial development

**Cooperation  
Process**

APIIC / TSIIC, Consultants, Service Society, Planning Authorities, Other Working Groups

National and state governments

**Learning  
Process**

Case study on convincing CCA Plans including analysis and recommendations available

Consideration of CC risks and CCA investments officially adopted in investment planning

**Development and  
Adoption of Policy  
Paper on Climate  
Change  
Adaptation by two  
state government  
and Upscaling**

**INTEGRATION  
/ GIZ**

**Working  
Group**

**Coordination  
and  
Backstopping**

**Documentation**

## Auxiliary processes

## **GROUP 4: IMPLEMENTATION AND SUPPORT**

# Strategy: Implementation and Support

## Strategic Objectives:

To plan and implement Climate Resilient Industrial Parks

## Intended Results:

Technical assistance and support for the planning, development, construction and operational phases of climate resilient measures

### Key Strategies & Priorities:

- Involvement of Cooperation Partner(s) in Identification of Project Priorities
- Assessment of Strength and Weakness
- Development of concepts for customised solutions & consultations

### Critical aspects for success & risks:

- Active Steering Structure
- Working Group Roles and Responsibilities
- Support of partner organizations AP / TS IIC and other Stakeholders
- Capacity Development of Stakeholders'
- Identification and Initiation of Financial Resources

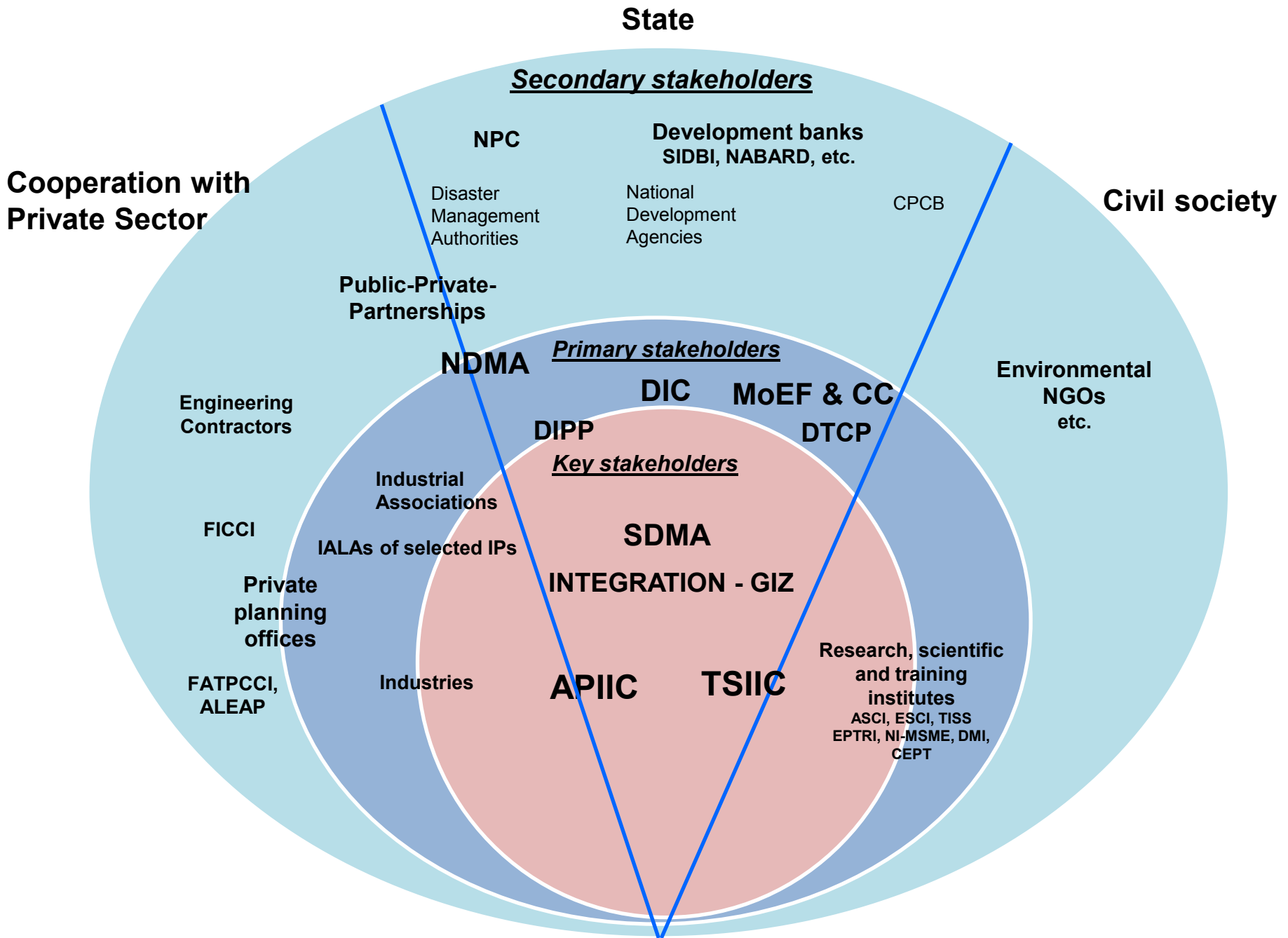
### Strategic Indicators

- Identification and development of possible adaptation measures and prioritization of measures considering risk, vulnerability and cost-benefit
- A draft for a national or regional industry development plan that considers climate risks has been developed.
- Three climate-resilient development and retrofitting plans for industrial areas have been drafted and priority measures have been identified.

### Strategic Planning & Budgeting:

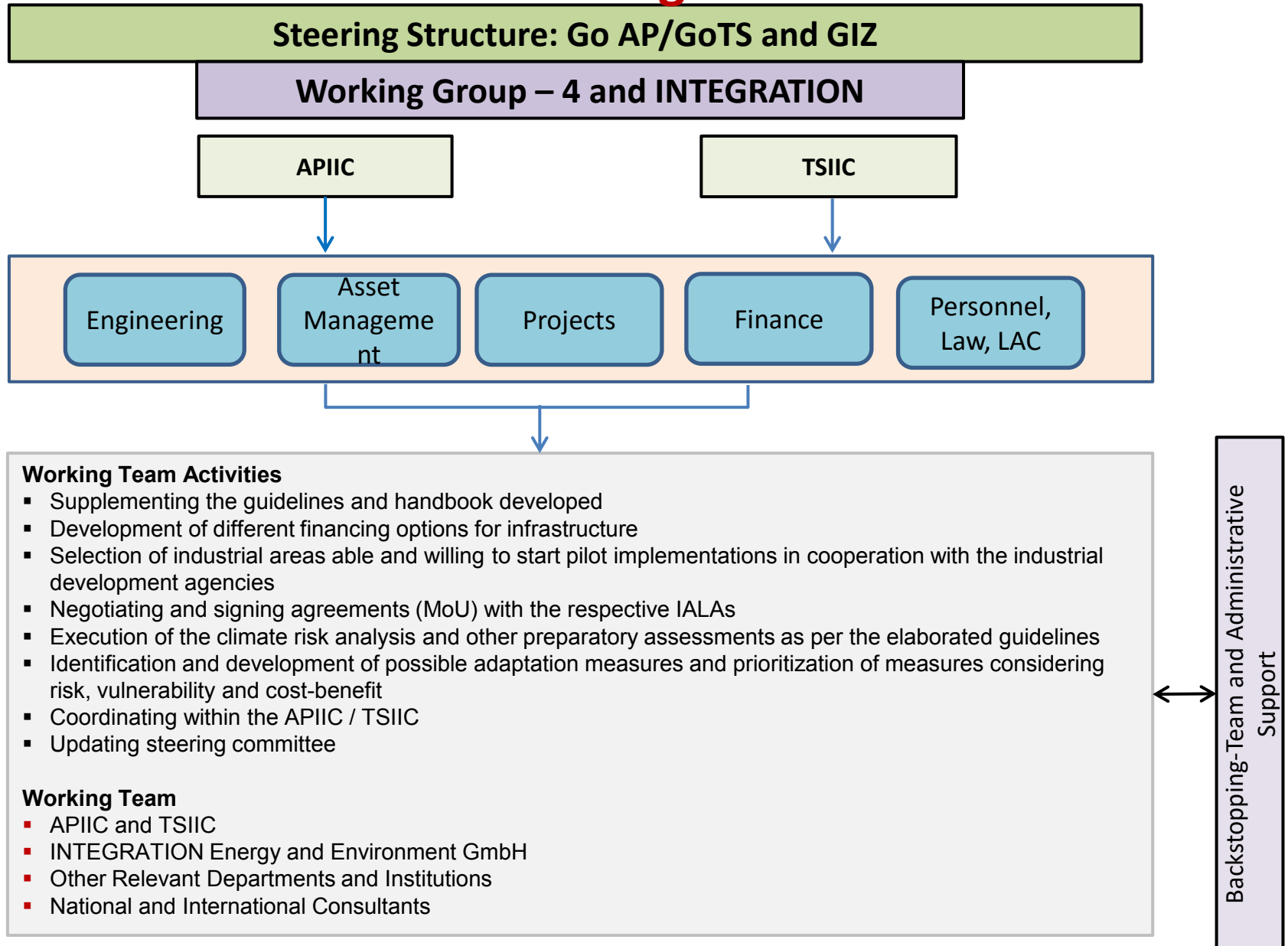
- Understanding and Elaborating Steering and Auxiliary Processes
- Government / Industries / Others Budget

# Cooperation Landscape





# Sub- Steering Structure



# Processes

## Steering processes

Project-  
management

Technical  
Processes

Learning  
Processes

Assessing,  
Monitoring and  
Revisiting

**Output  
Process**

Supplementing the guidelines and handbook developed

**Cooperation  
Process**

APIIC / TSIIC, Consultants, Service Society, Planning  
Authorities, Other Working Groups

National and state governments

**Learning  
Process**

Preparation of the Climate Adaptation Plan / Climate  
Adaptation Chapter of the Development Plan including a risk  
management system

Three (Four)  
climate-resilient  
development and  
retrofitting plans  
for industrial areas  
have been drafted  
and priority  
measures have  
been identified.

INTEGRATION  
/ GIZ

Working  
Group

Coordination  
and  
Backstopping

Documentation

## Auxiliary processes