

Summary of Progress

1. Summary sheet

Summary	<p>As second year of the project activity, preparation for pilot project implementation started. Pilot project implementation plan was drafted and activity under the plan was initiated for awareness raising and organization of the implementation structure.</p> <p>Study tour to Japan was implemented in July 2012, with the participation of 18 government officers from PCD, DIW and IEAT.</p> <p>Basic design of PRTR system was revised and prepared as 2nd draft for pilot project implementation. Report format was also drafted. As for point sources, estimation manual preparation proceeded to complete first draft manual for refinery, and chemical/petrochemical industries. As third manual, task force for automobile and related industry was set up. Data availability survey was implemented for non point sources. Two training workshops of risk communication for government officers were implemented in June 2012. Follow up of the trainee in the risk communication training in January 2012 was done. Current situation/plan for various source estimations is shown in the figure in next page.</p>
Activity	<ul style="list-style-type: none"> ● JCC meeting was held in May 22, 2012. ● Pilot project implementation plan was discussed and draft paper was prepared. ● Study tour to Japan was implemented in July 2012. ● Implement data availability survey for non point source. ● Workshop for Industrial park/land/zone in Rayong organized in Aug. 17th, 2012 ● Workshop for Industrial Estate in Rayong organized in Aug. 28, 2012 ● Workshop for local government in Rayong organized in Sept. 7, 2012.
Paper/report prepared	<ul style="list-style-type: none"> ● Revised paper for PRTR basic design and report format ● Revised point source definition ● Report of study tour in Japan ● Pilot project implementation plan ● Progress Report No.3
Plan	<ul style="list-style-type: none"> ● 2nd PRTR seminar to be held on Oct. 5th, 2012. ● 3rd NGO meeting to be held on Sept. 26th, 2012 ● Awareness raising activity to be continued in Rayong. ● Mid-term review of the project scheduled in Dec. 2012. ● Expanded task force for non point source estimation to be set up. ● Task force for risk communication promotion to be set up.

2. Organization structure

Diagram in next page shows organization structure of the project and the relationship with various stakeholders as of September 2012. Major developments during last six months are as follows.

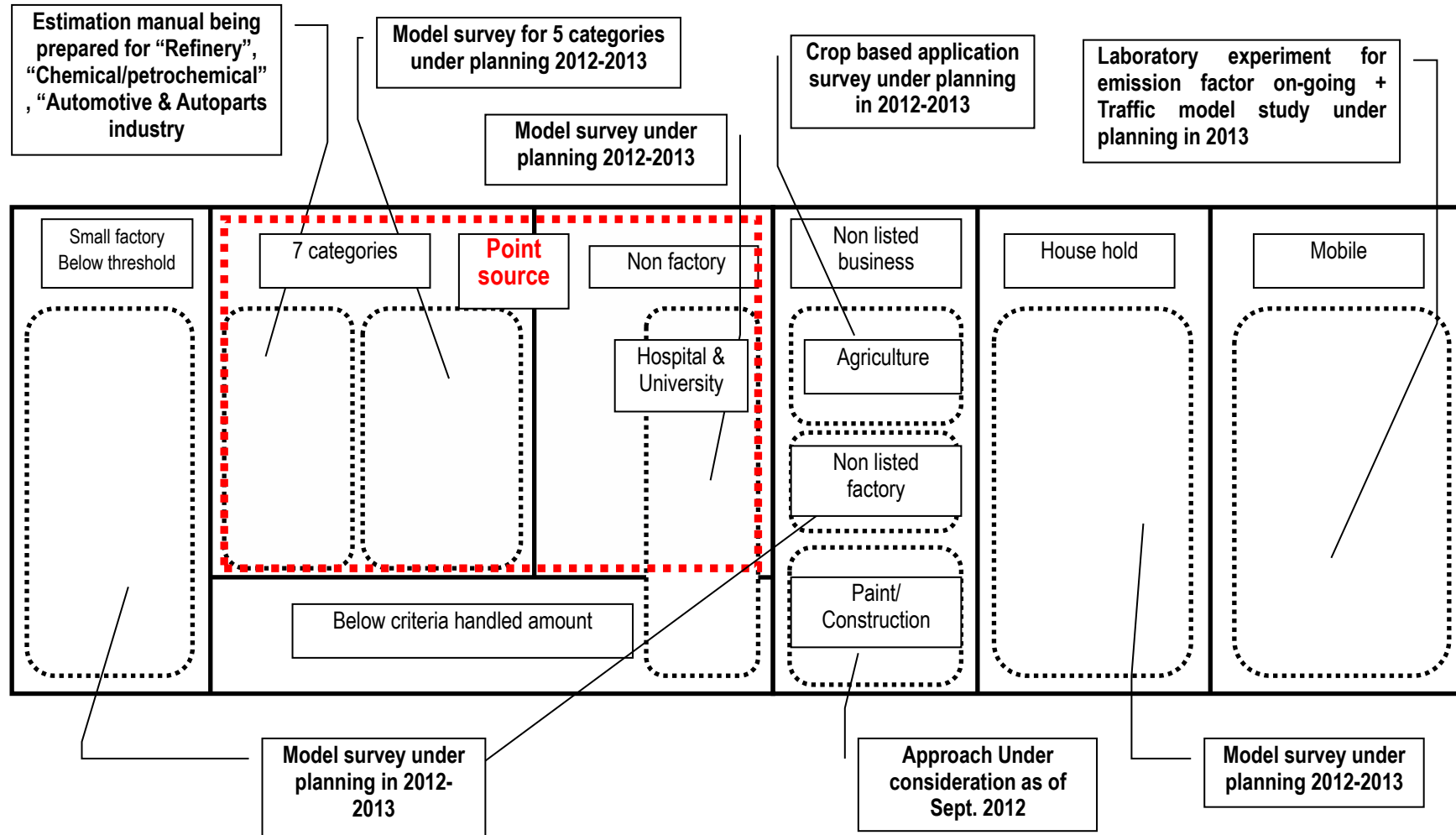
- New task force was set to prepare estimation manual for automotive and Auto parts industry under cooperation from the relevant industry club of FTI.
- Environmental Department as well as Map Ta Phut Industrial Estate and Port Management Department of IEAT were involved in PRTR project as responsible department.
- For pilot project implementation, three separate implementation sector was designed and being organized. They are 1) local government sector, 2) IEAT sector and 3) Industrial park/land/zone sector. Detail structure of three sectors at this stage is also shown in the attached figures as draft (especially for local government sector the figure is limited to those who participated in the workshop of Sept. 7th, 2012). For each sector, structure was designed hierarchically. Target of awareness raising and training activity will be implemented in two steps. 1st step is for the officer in local government, IEAT and Industrial park/land/zone office. Participant for the 1st step will be the focal point for the 2nd step. 2nd step is for factory and other business operators as well as general public at each of the focal point.
- Proposed role of focal points in three sectors noted above are as follows.

Sectors	Proposed role
local government	<ul style="list-style-type: none">● To coordinate the awareness raising/training activity for point sources.● To identify point sources and maintain the list.● To monitor the reporting by the point sources to PRTR team.● To provide support for data collection activity for non-point source estimation by PRTR team.● To coordinate the data explanation and risk communication activity for communities.
IEAT	<ul style="list-style-type: none">● To coordinate the awareness raising/training activity for factories (as point sources).● To identify point sources and maintain the list.● To receive the reporting by the factories (as point sources) ,compile and send to PRTR team.● To coordinate the data explanation and risk communication activity for communities.
Industrial park/land/zone	<ul style="list-style-type: none">● To coordinate the awareness raising/training activity for factories (as point sources).● To identify point sources and maintain the list.● To monitor the reporting by the point sources to PRTR team.● To coordinate the data explanation and risk communication activity for communities.

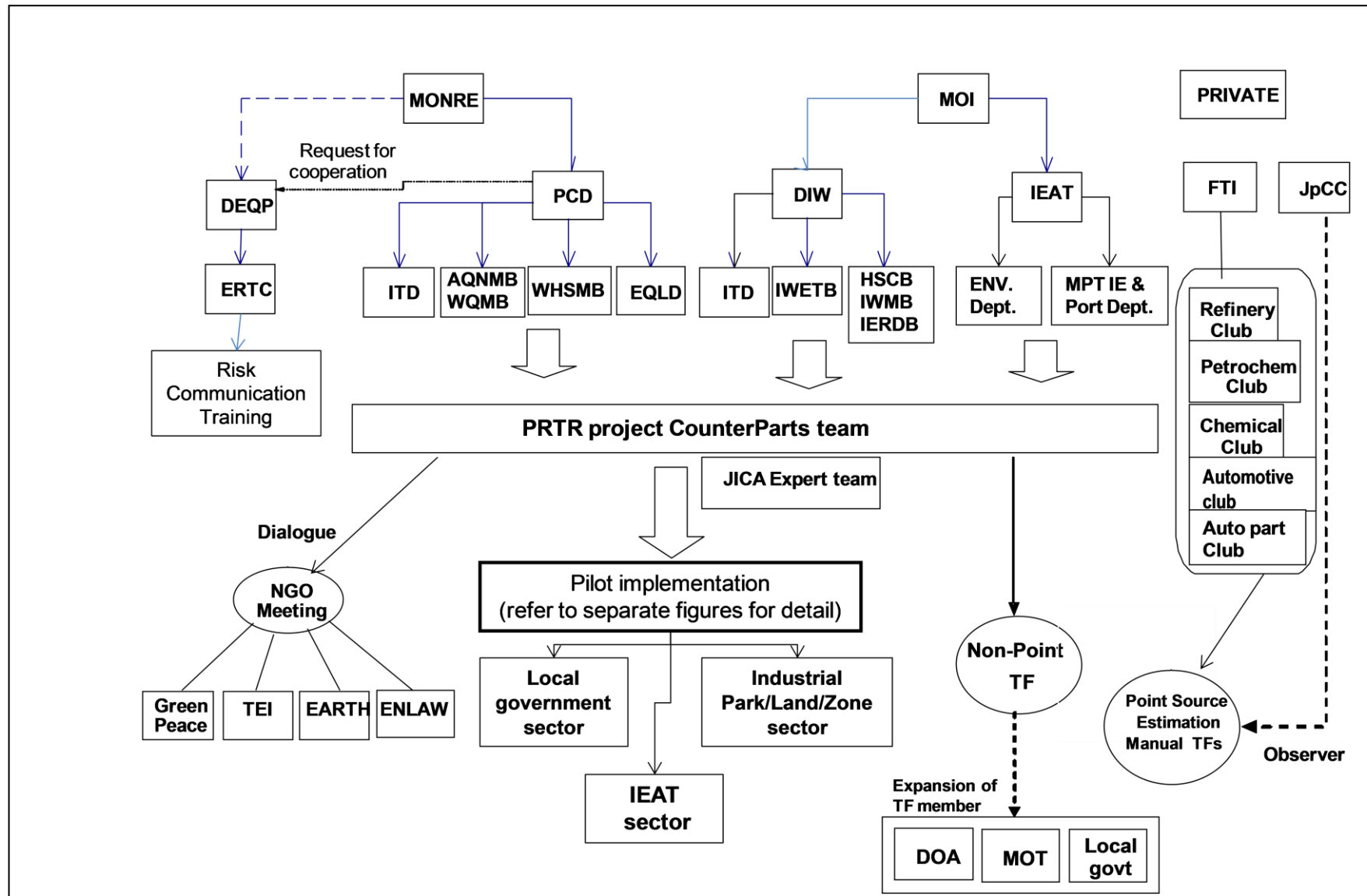
3. Major Issues and problem

- Large scale awareness raising and training activity shall be carried out at Rayong while resource is limited. Approach to involve local officers for pilot project implementation need to be further clarified.
- PRTR database and web site development shall be continued under PCD-DIW cooperation. PCD-DIW IT division shall communicate and coordinate the activity.
- Need for field survey for non-point source estimation increased due to non-availability of various activity data. Technical approach as well as logistic (including budget) arrangement needs to be clarified.
- Human resource development on risk communication to be continued at DEQP/ERTC-IET. Policy matter for risk communication shall be clarified.

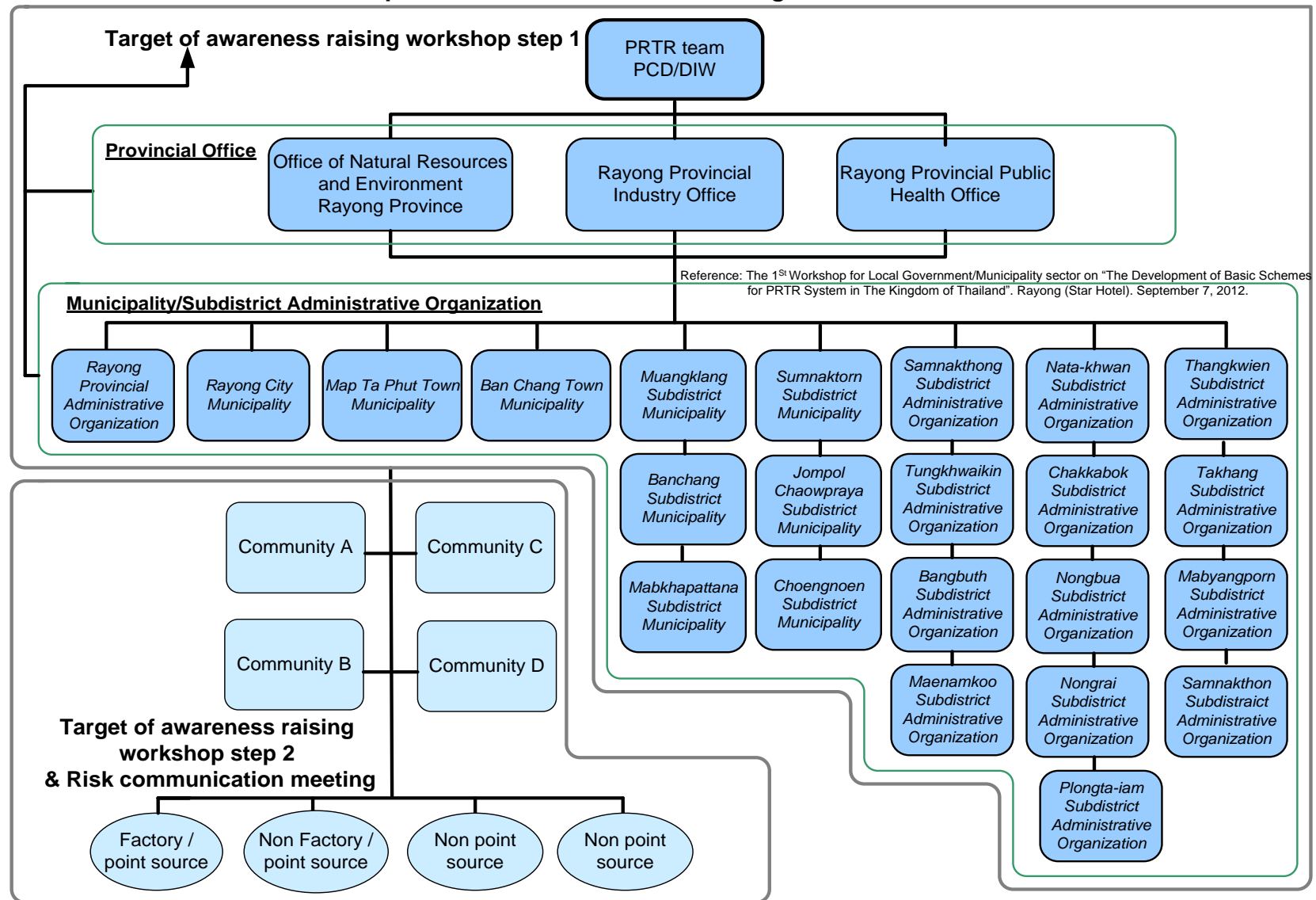
Current situation for point source/ non-point source estimation work



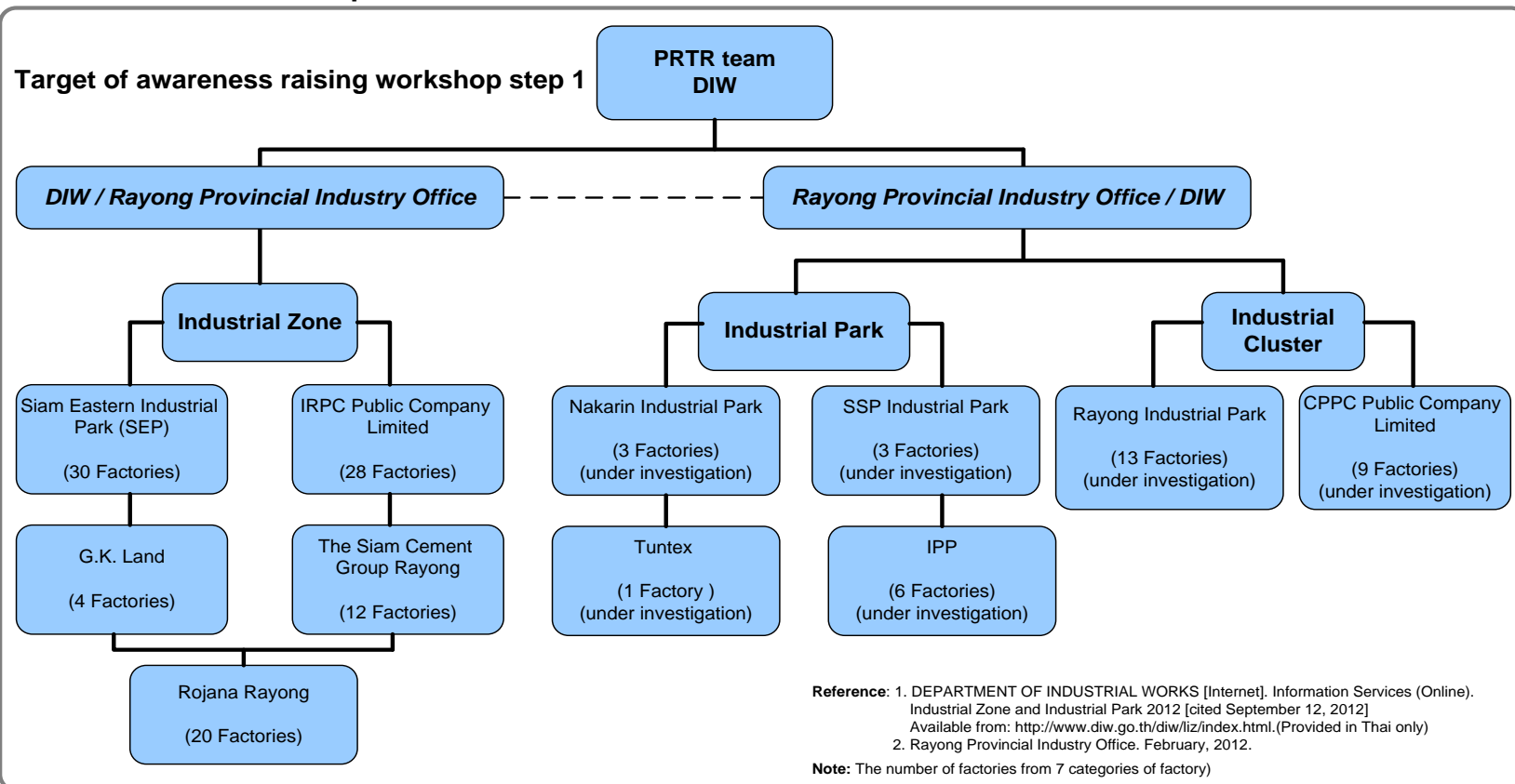
Organization structure of the project and relation with stakeholders



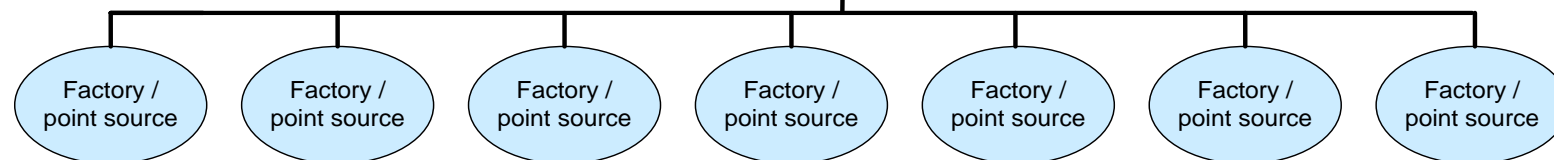
Implementation structure of Local government sector



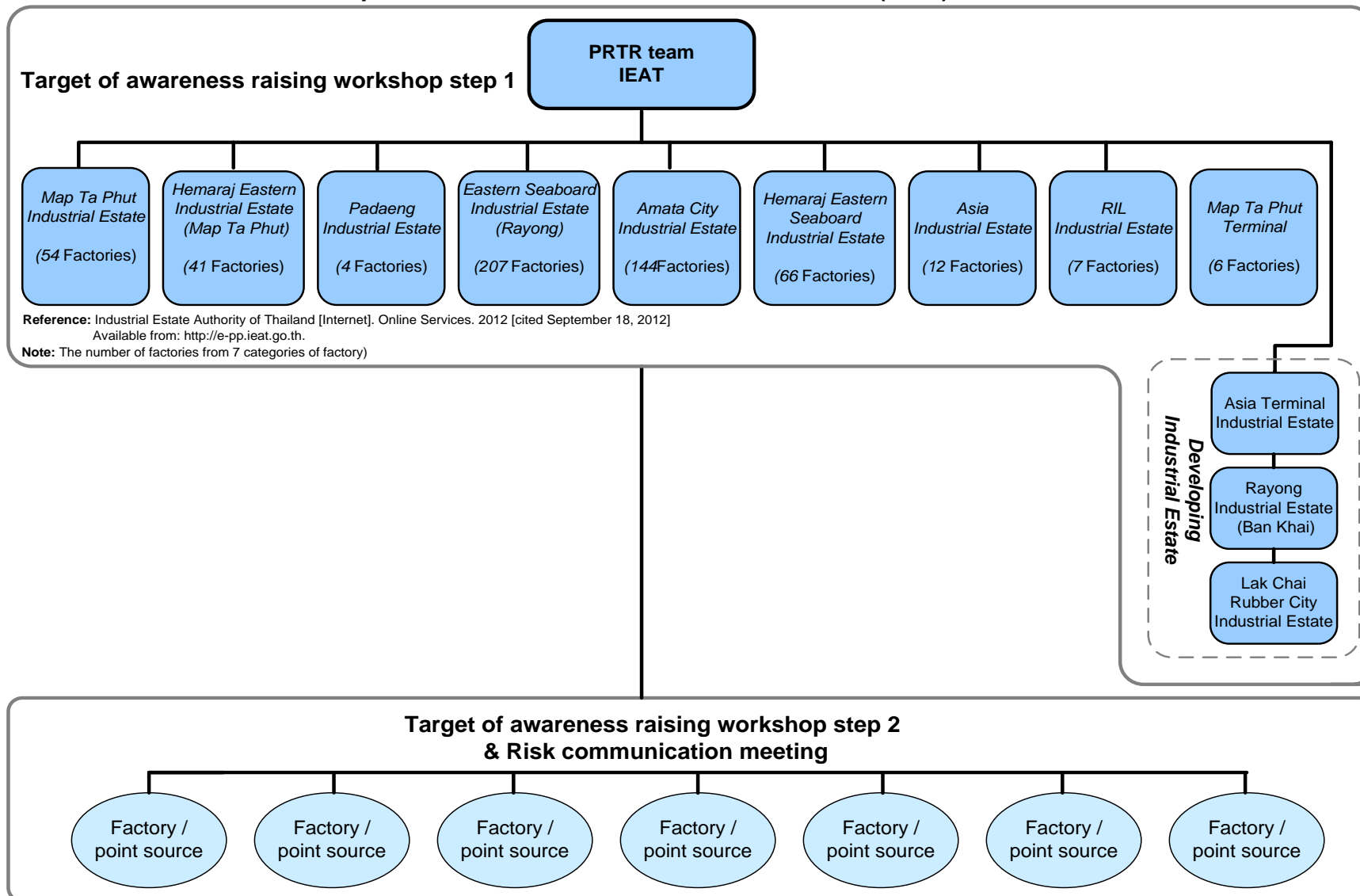
Implementation structure of Industrial Zone/Park/Cluster sector



Target of awareness raising workshop step 2 & Risk communication meeting



Implementation structure of Industrial Estate (IEAT) sector



4. Progress of each output

4.1 Output 1 Design of PRTR system	
Summary	Basic design of PRTR was discussed and revised as 2 nd draft. Point source definition was also revised. Involvement of local stakeholders for pilot project implementation was designed in pilot project implementation plan.
Activity	<ul style="list-style-type: none"> ● Basic paper for PRTR system was revised as 2nd draft. ● Target substance list was reviewed specially for few substances with the actual import business, but no change has made. ● Point source definition was revised as 2nd draft. ● Pilot project implementation plan was discussed and drafted the paper. ● Workshop for Industrial park/land/zone in Rayong organized in Aug. 17th, 2012 ● Workshop for Industrial Estate in Rayong organized in Aug. 28, 2012 ● Workshop for local government in Rayong organized in Sept. 7, 2012. ● QA/QC issue of trace analysis was discussed with private laboratory association (VLA).
Paper/report prepared	<ul style="list-style-type: none"> ● Revised basic paper of PRTR design ● Revised point source definition. ● Pilot project implementation plan.
Issues	<ul style="list-style-type: none"> ● Public consultation with all stakeholders and feedback to the system design. ● Consensus development for level of PRTR data disclosure. ● Large scale awareness raising and training activity to be carried out at Rayong while resource is limited. ● PRTR database and web site development to be continued under PCD-DIW cooperation.
Plan	<ul style="list-style-type: none"> ● 2nd PRTR seminar to be held on Oct. 5th, 2012. ● 3rd NGO meeting to be held on Sept. 26th, 2012 ● Awareness raising activity to be continued in Rayong.

4.2 Output 2 Reporting system from Industry	
Summary	Pilot project implementation plan including reporting system for three sectors was developed.
Activity	<ul style="list-style-type: none"> ● Point source definition was revised to include non-factory point sources. ● Non factory point source is studied based on PCD's PSIS. ● Report format was drafted. ● Implementation structure for pilot was discussed and designed.
Paper/report prepared	<ul style="list-style-type: none"> ● Revised point source definition with flow chart. ● Draft report format.
Issues	<ul style="list-style-type: none"> ● Implementation structure for pilot including officer from local government as well as IEAT and other industrial complex was designed, but the structure needed to be materialized and functioned.
Plan	<ul style="list-style-type: none"> ● Large scale awareness raising and training activity to be carried out.

4.3 Output 3 Estimation from Point Source	
Summary	<p>Continued the development of release estimation manual in collaboration with FTI. Following “Refinery” and “Chemical/Petrochemical”, task force for “Automotive and Auto parts industry” was set up.</p> <p>Budgetary arrangement for the model study of factory in the category without industry specific manual has been arranged at DIW and IEAT.</p>
Activity	<ul style="list-style-type: none"> ● Preliminary meeting for “Automotive and Auto parts industry” task force was held May, 29, 2012. ● 3rd task force meeting for “Refinery” was held in June 13, 2012. ● 2nd task force meeting for “Chemical/Petrochemical” was held in June 14, 2012. ● 1st task force meeting for “Automotive and Auto parts industry” was held in July 27, 2012. ● 2nd task force meeting for “Automotive and Auto parts industry” was held in August 28, 2012. ● Budget arranged for the model study for 5 industry category without specific manual. ● Budget arranged for model study for non-factory point source such as hospital and university. Cooperation was discussed with Ministry of Public Health and Noppardon Hospital for estimation of emission from Hospitals.
Paper/report prepared	<ul style="list-style-type: none"> ● Draft estimation manual for “Refinery” ● Draft estimation manual for “Chemical/petrochemical industry”
Issues	<ul style="list-style-type: none"> ● TOR of model study for factories outside of point source definition, factories below threshold, factory in the category without industry specific manual need to be developed.
Plan	<ul style="list-style-type: none"> ● Estimation manual for “Refinery”, “Chemical/Petrochemical”, “Automotive and Auto parts industry” will be finalized and translated to Thai by the end of November. ● Training workshop at various site in Rayong to be organized. ● TOR for model study to be developed.

4.4 Output 4 Estimation from Non-Point Source	
Summary	<p>Data availability survey under sub-contract was implemented to design the estimation approach.</p> <p>Various budget arrangements were made for data collection as well as model study.</p>
Activity	<ul style="list-style-type: none"> ● Sub-contracted work for data availability survey was carried out with Thailand Environment Institute. ● Technical approach to estimate the agriculture chemical was discussed and prepared in cooperation with Thailand Crop Protection Association.

	<ul style="list-style-type: none"> ● Traffic data availability was discussed with Office of Transport and Traffic Policy and Planning. ● Budget arranged for model study for factory under non-point source category. ● Budget arranged for field study for agriculture chemicals and TOR developed.
Paper/report prepared	<ul style="list-style-type: none"> ● Report of Data availability survey for non-point sources
Issues	Technical approach for all non-point source estimation needs to be clarified and compiled.
Plan	<ul style="list-style-type: none"> ● Technical approach for paint/construction field as well as mobile source to be clarified. ● TOR for various model studies to be developed. ● Technical approach summary shall be prepared. ● Expanded non-point source task force to be organized.

4.5 Output 5 Utilization of PRTR data

Summary	No progress during the period,
Activity	No specific activity
Paper/report prepared	None.
Issues	None.
Plan	Consider and design handbook for risk communication for PRTR data utilization.

4.6 Output 6 Risk Communication

Summary	<p>Workshops for government officers organized twice in Bangkok for PCD/DIW/IEAT and once in Rayong for IEAT. Policy for promote risk communication was discussed and basic paper was drafted.</p> <p>Follow up of training participant from Jan. 2012 was carried out by questionnaire and small workshop to indentify the need for improvement of the curriculum and material of the training.</p>
Activity	<ul style="list-style-type: none"> ● Workshops for risk communication for government officers held at PCD on June 21 and June 22, 2012. ● Risk communication mini training at workshop for IEAT officer implemented in Rayong on Aug. 28, 2012, ● Follow up workshops for risk communication training held in Bangkok on August 27, 2012, and in Rayong on August 29, 2012.
Paper/report prepared	<ul style="list-style-type: none"> ● New scenarios for role play exercise of risk communication ● Report on risk communication follow up and workshops. ● Basic paper for risk communication policy.
Issues	<ul style="list-style-type: none"> ● Human resource development for facilitator's role is well underway, but that for chemical advisor or technical specialist still need to be

	<p>considered. Registration system for such specialist is the option.</p> <ul style="list-style-type: none"> ● Policy and budget arrangement for promoting risk communication shall be clarified.
Plan	<ul style="list-style-type: none"> ● Task force or team for Risk communication policy shall be set up within the project.