

# SAFE THAI

Safety and Environmental Best Practices Exchange  
for Transportation of Hazardous Substances in the Industry

A Project Funded by  
European Union



(Under the Thailand-EC  
Cooperation Facility)

## PROJECT FUTURE

By  
**Sally Ananya Surangpimol**  
Project Representative  
SAFE THAI



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Hazardous Substances Logistics  
Association



# Project Details

**Project Title** - **SAF**ety and **E**nvironmental Best Practices Exchange for **T**ransportation of **HA**zardous Substances in the **I**ndustry

**Project Partners** - HASLA (Lead Applicant)  
Adelphi Research (European Partner)

**Project Amount** - 191,583 Euro ( Grant – 143,687 Euro)

**Project Duration** - 11 months

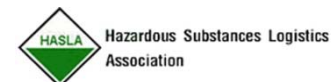
**Project Location** - Central Bangkok Metropolis  
- Eastern Seaboard – Chonburi, Rayong

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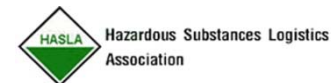
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# Project Details

## Project Target / Beneficiaries

- Small & Medium Enterprises in the Thai Chemical and Logistics industry
- Representatives of local administrators from Bangkok Metropolis, Chonburi and Rayong provinces
- Academia, TVET (Technical & Vocational Education and Training) institutions, Industry action groups, Government agencies concerned with safety & environment



# International Conventions on Hazardous Substances

**Basel Convention** on Trans-boundary Movement of Hazardous Wastes

**Rotterdam Convention** on Hazardous Chemicals, Pesticides in International Trade

**Stockholm Convention** on Persistent Organic Pollutants

**IMDG (International Maritime Dangerous Goods) Regulation** on Dangerous Goods

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# EU Directives and Regulations

**RoHS Directive** - Restriction of the Use of Hazardous Substances in Electrical & Electronic Equipment

**WEEE Directive** - Waste Electrical & Electronic Equipment

**REACH** - EC Chemical **Regulations** on the Registration, Evaluation, Authorisation & Restriction of Chemicals

**EuP Directive** - EcoDesign Requirements for Energy Using Products

**ELV Directive** - End of Life Vehicles

**Packaging Waste Directive**

**Batteries & Accumulators Directive**

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# Project Logic

## Why Transportation Sector ?

Nature of Industries in Thailand (Automobile, Chemical & Electronic)

Huge Transportation of Chemical & Hazardous Substance

(2006 - 28 Million Tons within country & 6 Million tons across borders)

Concentration of Industries in Central & Eastern Seaboard

(Bangkok Metropolis, Chonburi & Rayong provinces)

Lack of Sufficient Treatment Facility (estimates- only 20 to 25%)

Leading to Huge Risks for Transportation of Chemicals &

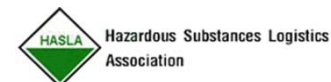
Hazardous Material (environmental, health & safety)

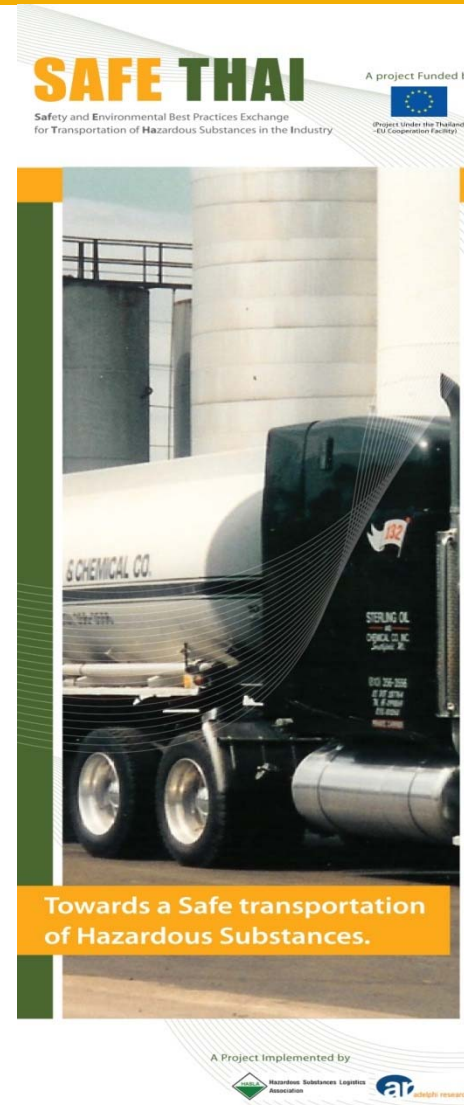
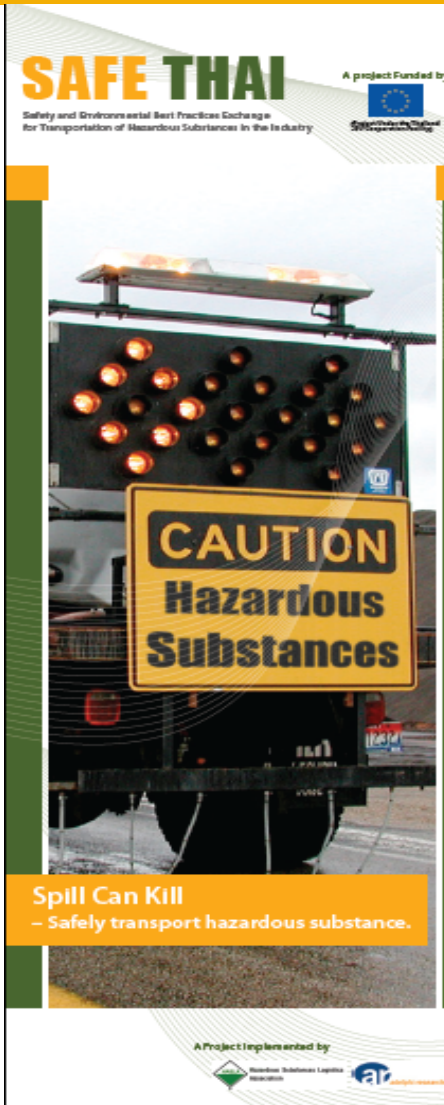
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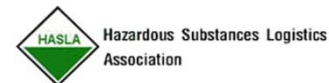


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# Expected Results

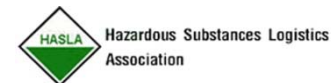
- Sound chemical & hazardous waste management
- Improved compliance to EU conventions and regulations
- Improved compliance to Multilateral Environmental Agreements
- Strengthened trade & increased investment flow between EU & Thailand
- Decrease in accidents / fatalities related to chemical & hazardous waste transportation
- Safer work environment & Safe Thailand

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# Project KPIs

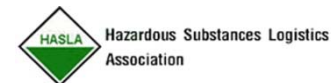
- **KPI 1: Overall improvement in sales between EU and SMEs of 2-5% through better understanding of EU and MEA requirements**
- **KPI 2: Increase in rate of compliance of hazardous materials transport / logistics to EU regulations / MEAs by 10 to 20%**
- **KPI 3: Decrease in accidents / fatalities related to chemical & hazardous waste transportation by 10 to 20%**
- **KPI 4: Train over 15 local Trainers; rollout of at least 2 trainings within following year with satisfaction rating of at least 85%**
- **KPI 5: K-sustainability kits made available to more than 500 organizations**
- **KPIs 6,7,8: Train 50 SMEs, 500 participants in awareness seminars and sessions on MEAs / EU regulations**
- **KPI 9: 5% increase in reported collaborations and product inquiries between EU companies and SMEs**

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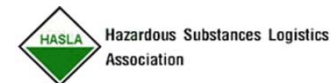
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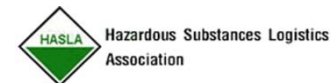
# Lessons and Challenges

- Project timeline of 11 months too short
- Big challenge of quantifying the Project KPIs; confidentiality concerns raised from some sectors regarding their evaluation
- “Fear” of controversial issues related to environment
- Use of local media alone for visibility not adequate
- Academia more interested in research over practice
- Time and availability constraints for finding trainers



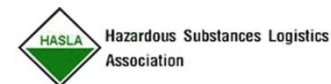
# Discoveries & Opportunities

- Interest from a wider range of sectors than expected e.g. food industry, industrial estates authority not initially included
- Involvement from government agencies – national and local
- Lack of in-country training centres and resources, only HASLA
- Support from regional offices of international organizations
- Business to business interaction between EU and Thailand industries necessary to encourage better trade flow
- Effectiveness of on-line visibility and international media



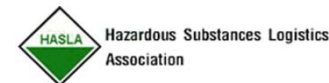
# Recommendations & Requests-1

- Expand the project concepts to all other sectors that handle hazardous material e.g. food industry, industrial estates
- Establish dedicated in-country training centre and resources, using HASLA as the core but independent and broader
- Develop dedicated trainers / support personnel for the centre
- Accreditation and certification for the centre, trainers and industry personnel; as well as for organizations
- Outreach to international media including on-line publications

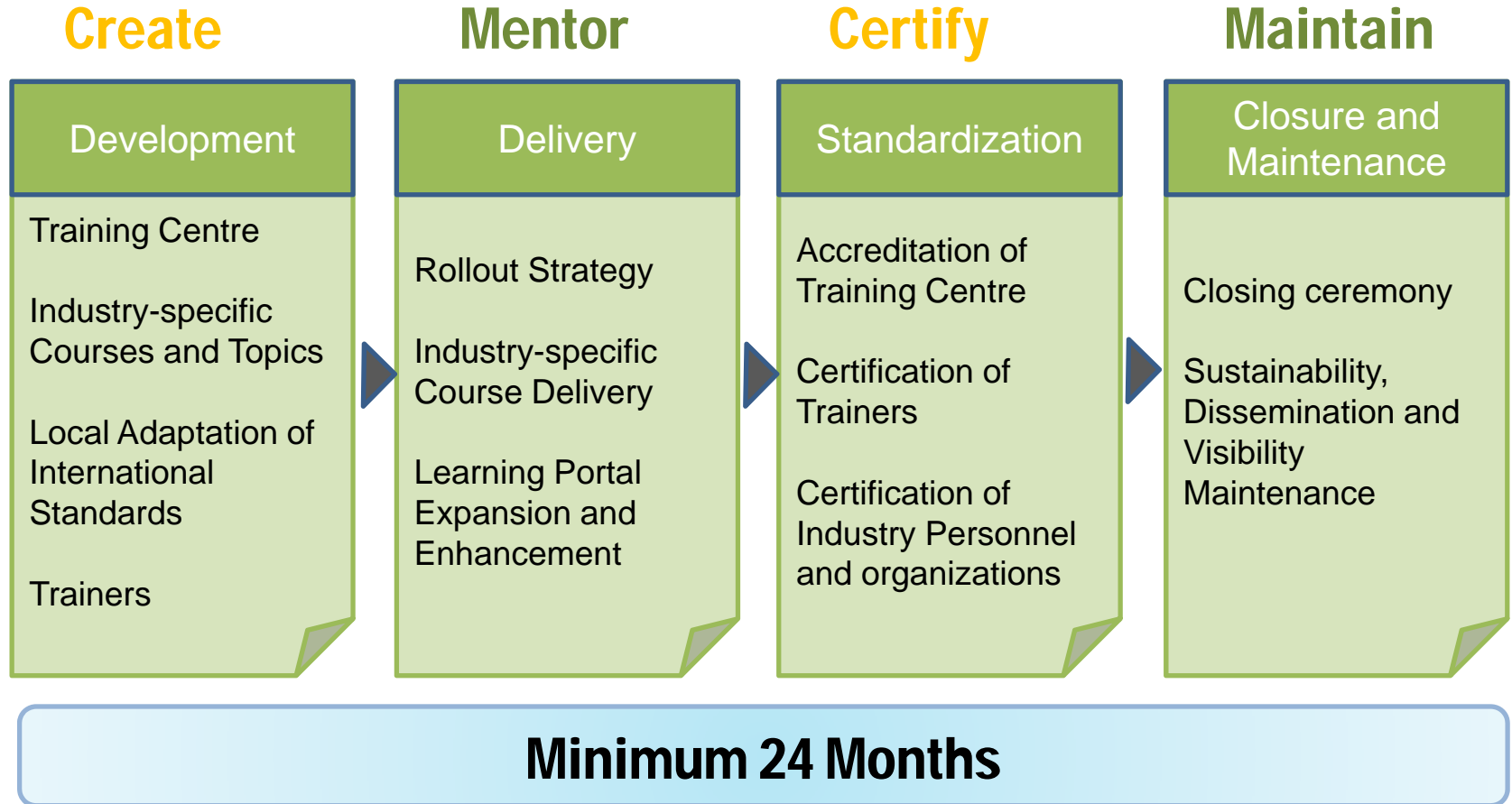


## Recommendations & Requests-2

- Local adaptation of MEAs, EU Directives and regulations; standards-setting, alignment and harmonization with international standards, as needed
- Continuing dialogue with international organizations as well as industry to industry between EU and Thailand; business-to-business interaction component in future projects
- Training on new and developing methodologies for assessment of environmental and health impacts from business activities
- Independent credible audit function for such assessments to serve both local businesses and international buyers



## Future Project Concepts



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# Thank You

For more information on  
the SAFE THAI Project,  
please visit [www.safe-thai.net](http://www.safe-thai.net)  
Or e-mail to  
[ananya@safe-thai.net](mailto:ananya@safe-thai.net)



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