

**International Energy Agency:
Implementing Agreement for Hybrid and Electric Vehicle
Technologies and Programmes**

**Annex XI: Electric Two Wheelers:
Workplan**

Tokyo Workshop

October 31, 2005

**Urs Schwegler, Interim Operating Agent
Fischingen / Switzerland**

Table of contents

Background and objectives

5 Subtasks

Organisation

Benefits for governments and industry

Next steps

Background

- **Electric motorcycles and bicycles can replace trips of cars and motorcycles with internal combustion engines.**
- **Thus, they can reduce energy consumption and environmental impacts.**
- **Several governments have supported market introduction > not all with success.**
- **Some vehicles sale well in some countries but fail in other countries**
 - **Lack of knowlegde in marketing**
 - **Lack of coordination between policy and industry**
 - **Lack of awareness?**

Objective

- **Specify success factors and obstacles to market penetration**
- **Develop means and ways to successful market introduction**
- **Point out energy and environmental potentials as justification for governmental support**
- **Institutionalize experience exchange on an international level**

Support by governments

- **Product standards, homologation**
- **Regulations (exemption of restricted access to inner cities etc.)**
- **Infrastructure**
- **Independent and reliable information (websites etc.)**
- **Exhibitions with Ride&Drive**
- **Demonstration projects**
- **Electric two wheelers in governmental fleets (shining example)**
- **Coordinating governmental support with marketing activities of suppliers (manufacturers, importers, dealers)!**

Project outline

- **5 Subtasks leaders responsible for their tasks**
- **Coordination by Operating Agent**
- **Project period: spring 2006 – spring 2008**

Legal frameworkt within IEA:

“Implementing Agreements are self-contained in the sense that they raise the financial resources required for their work by themselves.”

5 Subtasks

Energy saving and market potential

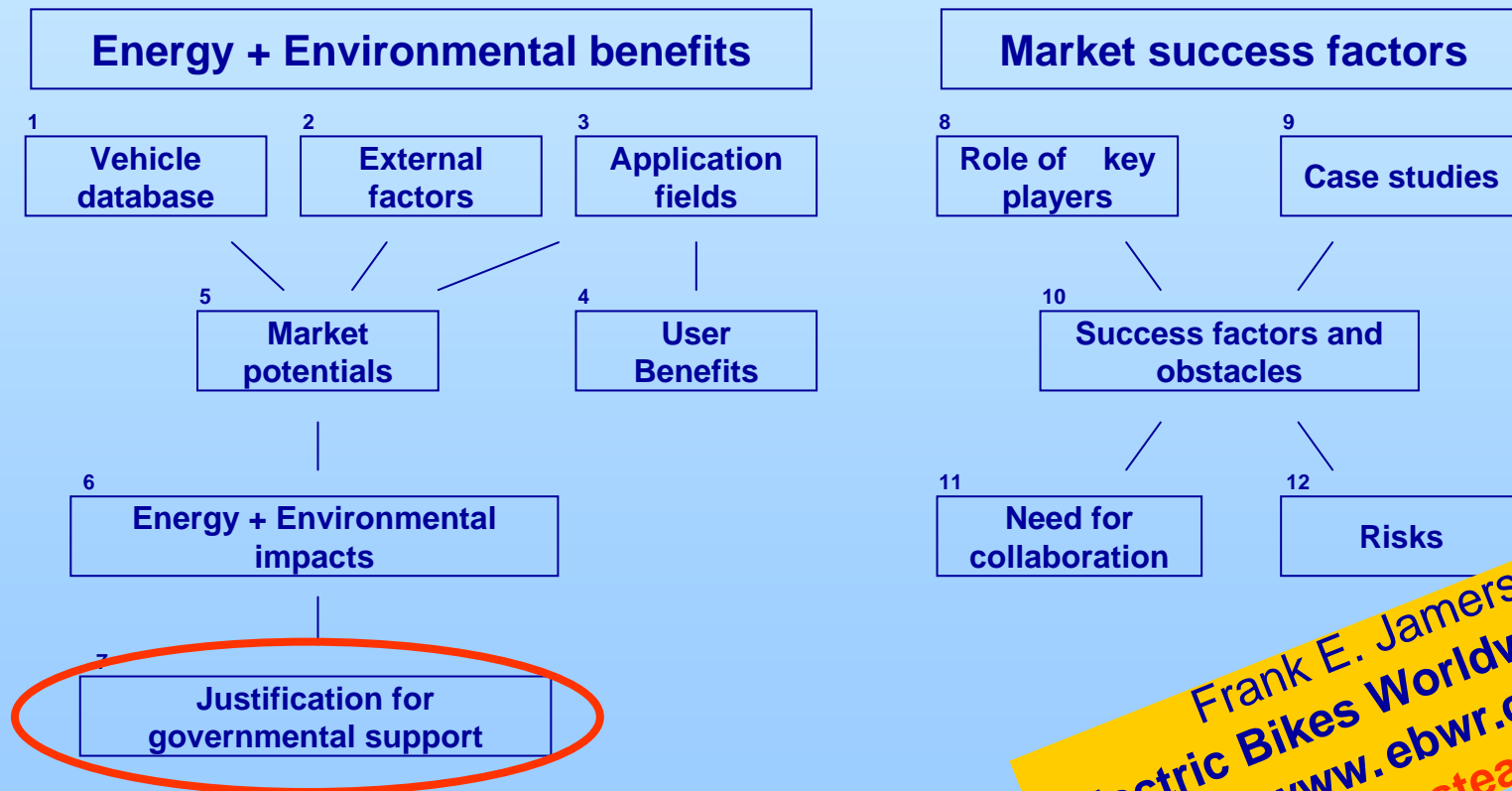
Market introduction

Vehicle technology

Infrastructure

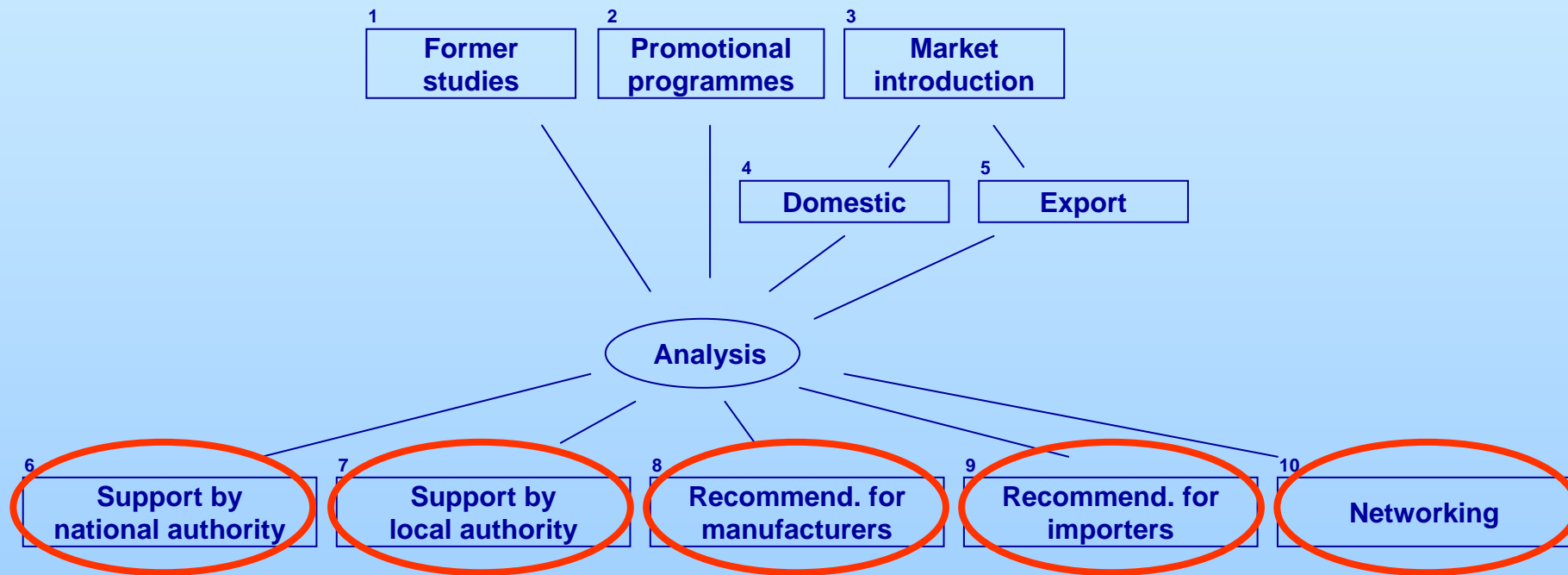
Sharing experience

Subtask 1: Energy saving and market potentials



Frank E. Jamerson:
 Electric Bikes Worldwide Report
 www.ebwr.com
 USD 150 instead of 295!

Subtask 2: Market introduction



Subtask 3: Vehicle technology

- State of the art
 - Energy efficiency of drive-trains
 - Actual and future requirements and trends
 - Storage systems and charging procedures
 - Technology standards and regulations
- Different levels of confidentiality

Subtask 4: Infrastructure

- **Public charging stations**
- **Charging fee collection**
- **Battery exchange services**
- **Protected and preferential parking as incentives**
- **Access to road infrastructure (bicycle lanes, environmental zones, road pricing)**

Subtask 5: Sharing Experience

Organizing 4 meetings / year in combination with technical visits

Objectives:

- **Coordinate work progress**
 - **Establish a platform for sharing experience**
 - **Incl. technical visits to exhibitions, research institutes, manufacturers, demonstration projects etc.**
- **Maximize benefit for participants in meetings and technical visits**

Organisation

Levels of partnership

1 Operating Agent



Frederic Vergels, AVERE

5 Subtask Leaders



- 1 Market potentials
Ed Benjamin ?
- 2 Market introduction
Urs Schwegler
- 3 Vehicle technology
???
- 4 Infrastructure
???
- 5 Sharing experience
Frederic Vergels

≈ 30 Full Partners in 5 – 10 countries

≈ 10 Associated Partners

≈ xxx addresses in contact list

Full Partners vs. Associated Partners

HEV member states:



Austria
Belgium
Finland
France
Italy
The Netherlands
Sweden
Switzerland
USA

Member states of HEV participate for 5'000 Euro p.a. (Country Partner)

All partners from Country Partners participate for free (Full Partners)

Partners from outside Country Partners participate as Associated Partners for 3'000 Euro p.a.

Providing input to subtask work:

- Labour cost

Attend experts meetings (at least two per year):

- Travel cost
- Labour cost
- No fees at technical meetings

Benefits

Benefits for governments

Learning from experience in other countries and cities

Host meetings: Present programmes to an international audience

Collaboration with domestic industry in market introduction

Insight in worldwide state of the art and trends

Arguments for justification of support

Learn from simple 2 wheeler technology for bigger vehicles

Benefits for industry

Market success factors

External conditions for market introduction in foreign countries

Contact to industrial partners

Worldwide market overview

Technology trends (confidentiality!)

Present their company to wider audience (technical visits)

Contact to government

Next steps

Preparing kick-off (Spring 06)

2006	Dec 31	Expression of Interest for Subtask Leader
2007	Feb 15	Confirmation Subtask Leaders
		Draft task description for Subtasks
		Application for Full and Associated Partners
	Feb 28	send out revised workplan to partners
	Mar 8-11	Taipei Cycle Show: Kick-off meeting:
		. Signing cooperation agreement
		. Discussing and approving workplan

Mr. Claude Mandil
IEA Executive Director
International Energy Agency
9, rue de la Fédération
75739 Paris Cedex 15
France

Notification of participation

[Date]

Re: Notification of Participation in Annex [Annex number] of the IEA Implementing Agreement for Hybrid and Electric Vehicle Technologies and Programmes

Dear Mr. Mandil,

This is to inform you that the Government of [Country] or [Designated Contracting Party] wishes to participate in the following Annex of the Implementing Agreement for Hybrid and Electric Vehicle Technologies and Programmes as of [date of initial participation]:

[Annex number: title of Annex]

Below please find the details of the responsible national expert(s) for this (these) Annex (Annexes, respectively):

[Name]

[Job Position]

[Address]

[Tel:]

[Fax:]

[E-mail:]

Yours sincerely,

[Name]

[Job Position]

[Full Contact Details]

cc: Mr. U. Muntwyler, Chair of the Implementing Agreement HEV
Mr. M. van Walwijk, Secretary of the Implementing Agreement HEV
[Names of additional persons to whom the letter will be sent in copy]

Events for experts meetings

2006	Mar 8-11	Taipei Cycle Show: Kick-off meeting
	Oct 22 – 28	Electric Vehicle Symposium EVS-22, Yokohama
2007	Mar / Apr	AVERE conference (Europe)
2008	Mar / Apr	Electric Vehicle Symposium EVS-23, Californie

More information?

Please, put your address in the contact list
or leave your card.

Or visit our website: www.transportation.anl.gov/ia_hev

Thank you!