



Research Executive Agency



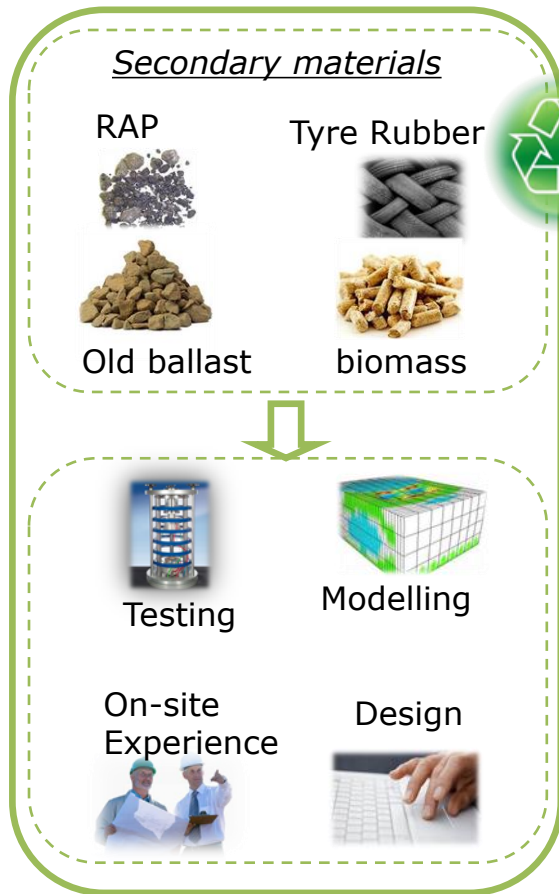
SUP&R ITN

*Sustainable Pavement & Railway International Training Network
2013 - 2017*

NTEC

Sustainable development of Transport Infrastructures

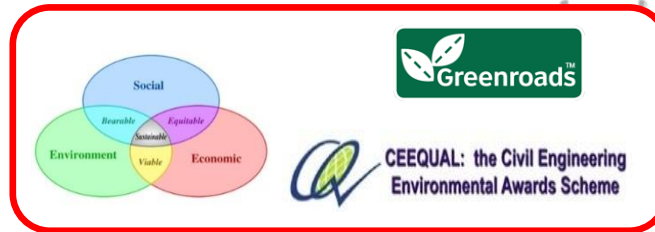
Characterization and Design of Sustainable Transport Infrastructures Technologies



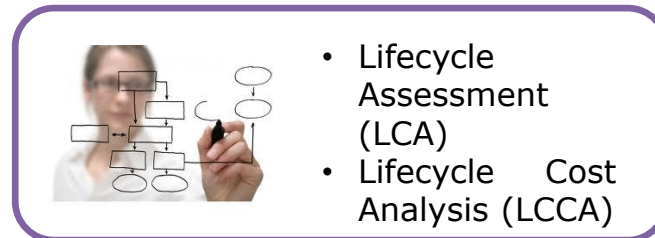
Maximise recycling



Minimise impact



Sustainability metrics and Labelling



Sustainability Assessment

The Programme



<http://ec.europa.eu/mariecurieactions>

INFO

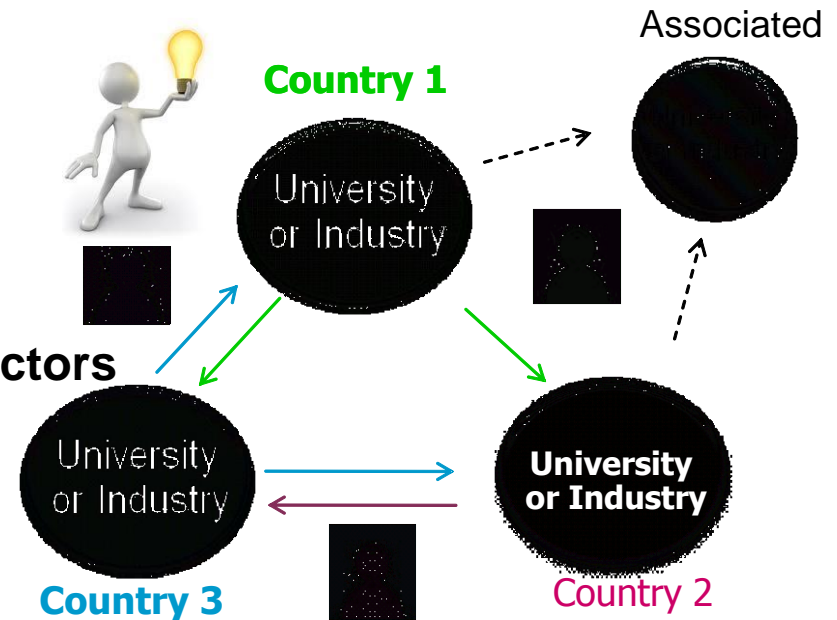
Call 2012 (budget~400.000.000€):

- > 1000 proposals
- 9% success rate projects funded
- SUP&R ITN : 4.057.000 €

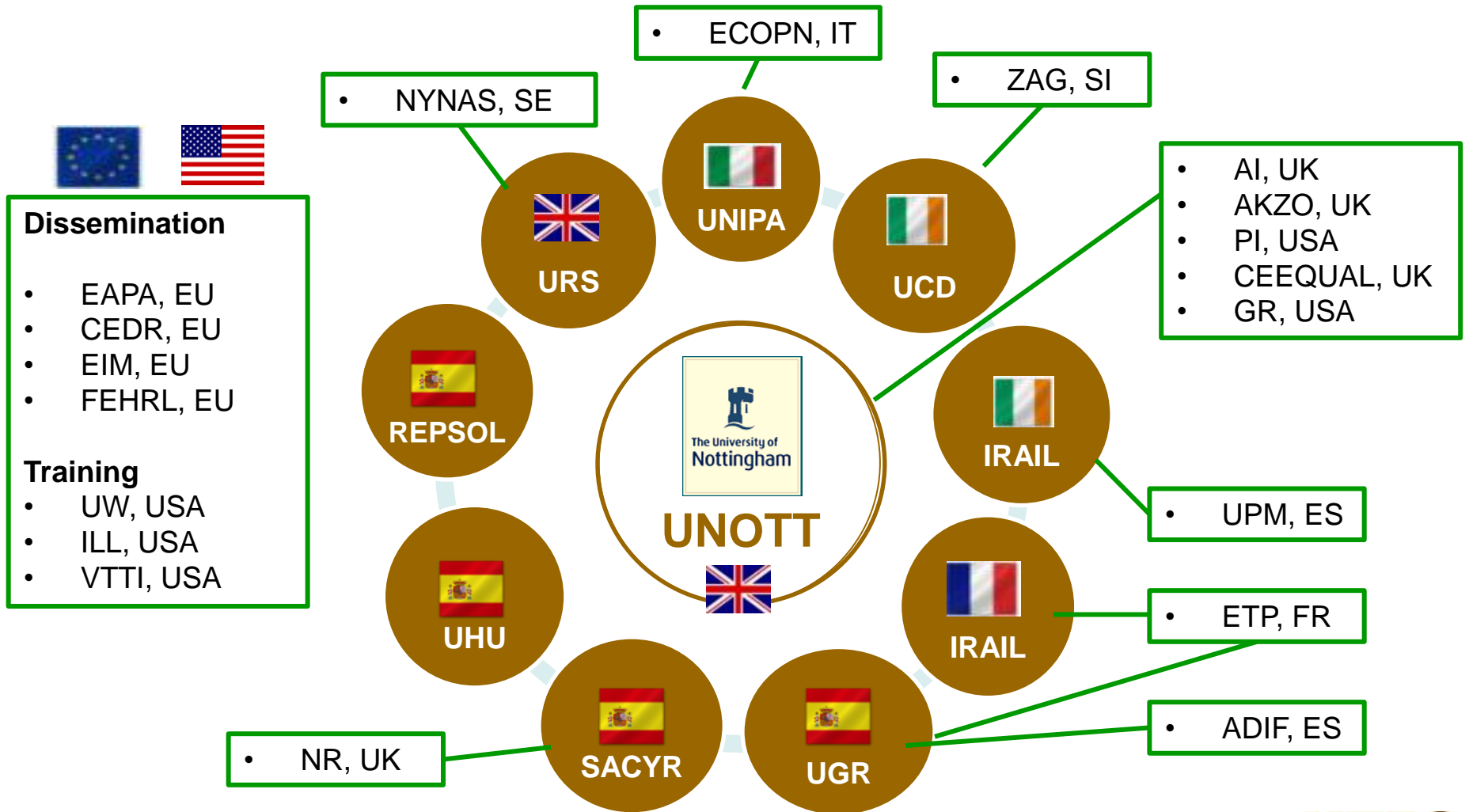
NTEC

Marie Curie – Multi-Partner ITN

- **Joint Research Programme: Training – through – Research Project**
- **At least 3 participants*** (any type) from 3 different MS/AC
Above this minimum, participation of also third countries is possible (“level 1”)
- **Associated partners** from any country / sector / discipline (“level 2”)
- **Private sector participation:** “highest possible level”
- **PhD:** appointment for 3-36 months
- **PD:** appointment for 3-24 months
- **Secondments** encouraged
(up to 30% of recruitment period)
- **Exposure to both public and private sectors**
- **Multi - Sectors**
- **Multi - Disciplines**
- **Appropriate implementation**
- **International - Great Impact**



SUP&R ITN - Implementation



SUP&R ITN - Implementation

SUP&R ITN structure

Network-wide Supervision and Monitoring

WP4: Network-wide training

WP5: Management

WP6: Communication

Local Training through Research

WP1 & WP2:
Pavement & Railway technologies

WP3:
Sustainability assessment

SUP&R ITN - Research

WP1 – Sustainable Pavement Technologies

ER No.	Project Title	Host Institutions	Work Package	Duration (month)	Indicative start date
ESR 1	Pavement design for cold in-situ recycled materials	URS, UNOTT, NYNAS	WP1	36	month 6
ESR 2	Design and characterization of bituminous mixes manufactured with biomass	UNOTT, REPSOL, UHU	WP1	36	month 6
ESR 3	Long term performance of low-temperature asphalt mixes containing reclaimed asphalt	IFSTTAR, UNOTT, ETP	WP1	36	month 6
ESR 4	Modification of binder with tyre rubber and polymeric networks for usage in road asphalt mixes	REPSOL, UHU, UNIPA	WP1	36	month 6
ESR 5	Binder design for low-temperature asphalt mixes	UHU, IFSTTAR, REPSOL	WP1	36	month 6
ESR 6	Half Warm Mixes Asphalt Recycling Asphalt, (HWMRA) in urban roads	SACYR, UGR, UNOTT	WP1	36	month 6

SUP&R ITN - Research

WP2 – Sustainable Railway Technologies

ER No.	Project Title	Host Institutions	Work Package	Duration (month)	Indicative start date
ESR 7	Optimization of trackbed design and maintenance	UNOTT, IRAIL, SACYR	WP1	36	month 6
ESR 8	Characterisation of rubberised asphalt for railways sub-ballasts	UNIPA, UGR, UNOTT	WP2	36	month 6
ESR 9	Modelling and Design of rubberised asphalt for railways sub-ballast	UNIPA, UNOTT, SACYR	WP2	36	month 6
ESR 10	Settlement monitoring and prediction in railway tracks	UCD, IRAIL, UPM	WP2	36	month 6
ESR 11	Optimisation techniques for geophysical assessment of rail support structures	UCD, ZAG	WP2	36	month 6
ESR 12	The Use of Waste materials in railways	UGR, UNOTT, UNIPA	WP2	36	month 6

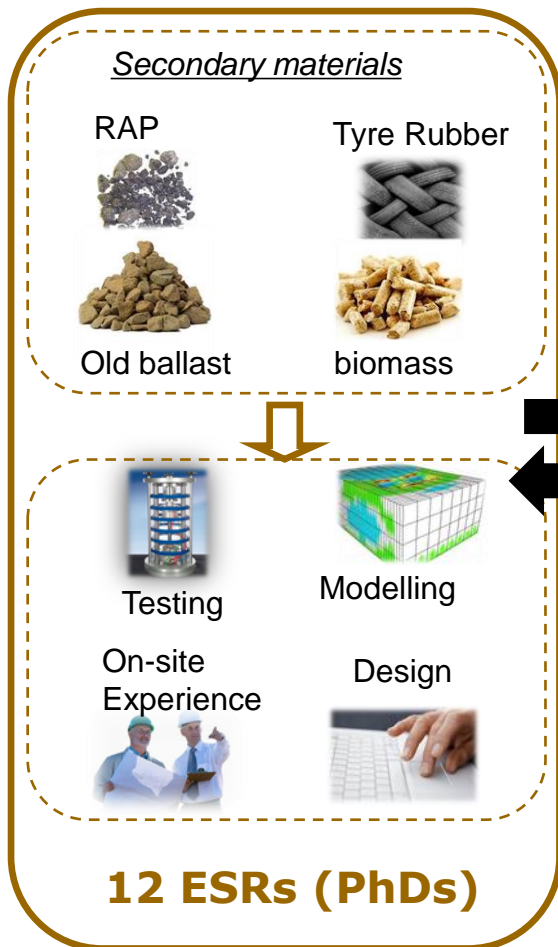
SUP&R ITN - Research

WP3 – Sustainability Assessment

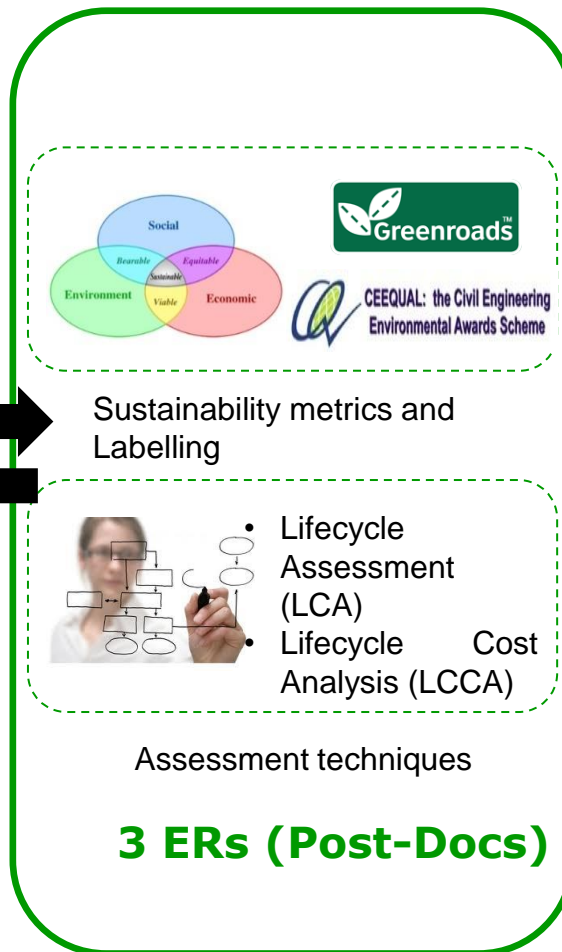
ER No.	Project Title	Host Institutions	Work Package	Duration (month)	Indicative start date
ER 1	Definition of sustainability assessment factors and current state-of-the-art in sustainable practices	UNOTT, IFSTTAR, GR, CEEQUAL	WP3	18	month 3
ER 2	Sustainability assessment of the SUP&R ITN technologies	UNIPA, UNOTT, IFSTTAR	WP3	24	month 18
ER 3	SUP&R ITN assessment tool	IFSTTAR, UNOTT, URS	WP3	24	month 24

SUP&R ITN - Research

WP1 & 2 Sustainable Transport Infrastructure Technologies



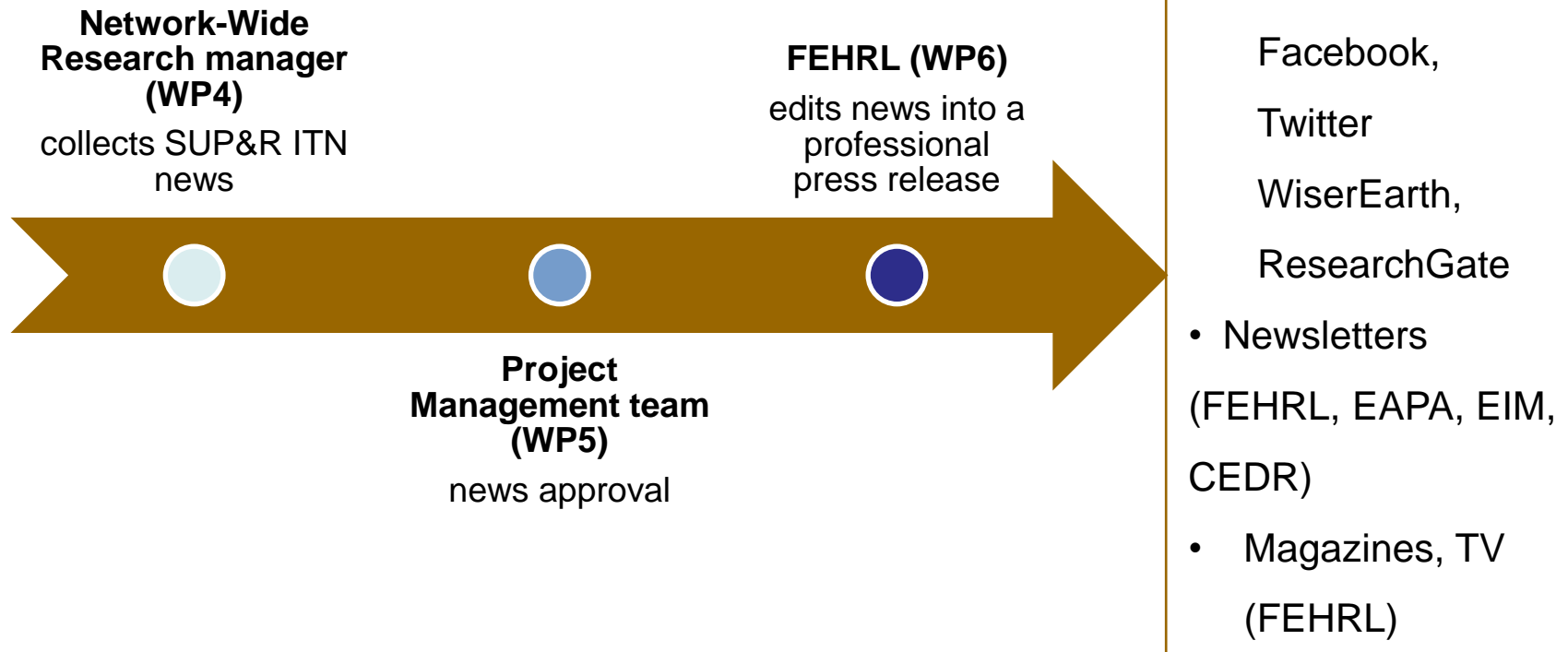
WP3 Sustainability Assessment



**SUP&R ITN
Methodology and
Software for
Sustainability
assessment for
Pavement &
Railways**

SUP&R ITN: Dissemination & Outreach

Virtual Press Release Platform



SUP&R ITN: Dissemination & Outreach

Science Outreach project (SOP)

- **SOP school in Nottingham**

- Public speaking
- Targeted for children/teenagers



**Hands-on activities
of each project**



Multimedia Releases

- Website
- Social networks
- Youtube

- **Uni-go-to-School - Nottingham**
- **Open day in other 4 countries**

SUP&R ITN - Implementation



12 Early stage researchers (PhDs)

3 Experienced Researchers (Post-Docs)

		Sett 13					Sett 14										Sett 15										Sett 16					Sett 17																																																			
Months:		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48																																		
WP1,2	ESRi i.1					1											12																24						36																																												
	ESRi i.3					1											12																24						36																																												
	ESRi i.5					1											12																24						36																																												
	ESRi i.5					1											12																24						36																																												
	ESRi i.4					1											12																24						36																																												
	ESRi i.6					1											12																24						36																																												
WP 3	ER1	3																		20																																																															
	ER2	13																		36																																																															
	ER3	23																		45																																																															
WP4 Training	Workshop													WS													WS						WS																																																		
	Confer.*																																						SS													SS																															
	Visiting R.																																																			SS													SS																		
	Other**																																																																																		
WP5 Manag.	Meetings***	SB																KO											SB						SB	F																																															
	Deliverables	1																6											9						12	18	24	30	37	42	44	46	48																																								
WP6 Outreach	Outreach	0																																																																																	
	Dissemin.	VPRP will keep on disseminating results during the whole period of the programme																																																																																	

- **RECRUITING NOV 2013**