



Trafif

Finnish Transport Safety Agency

Pilotage in Finland

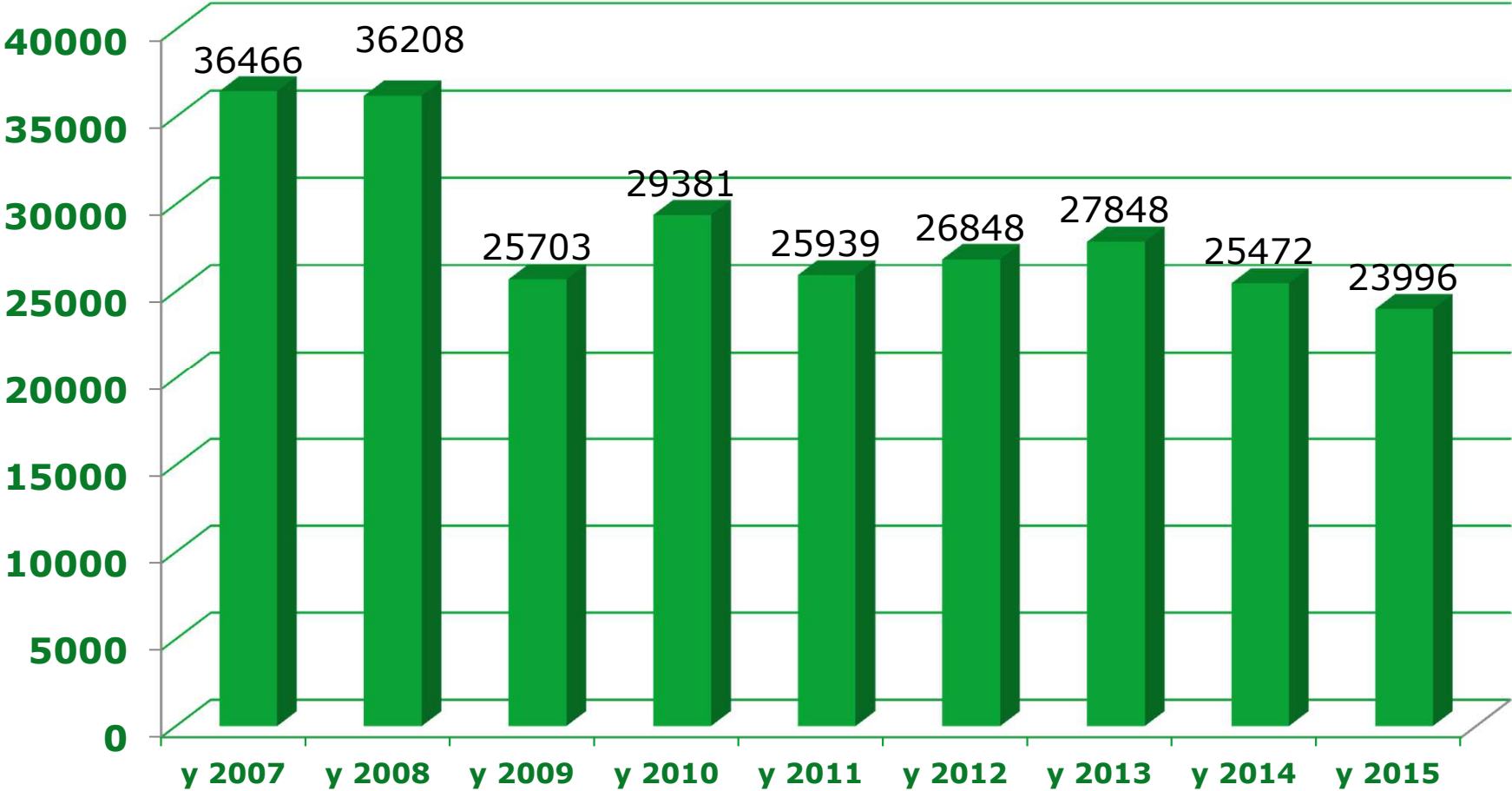
BPAC Stockholm 25 May 2015

Jukka Tuomaala
Special Adviser

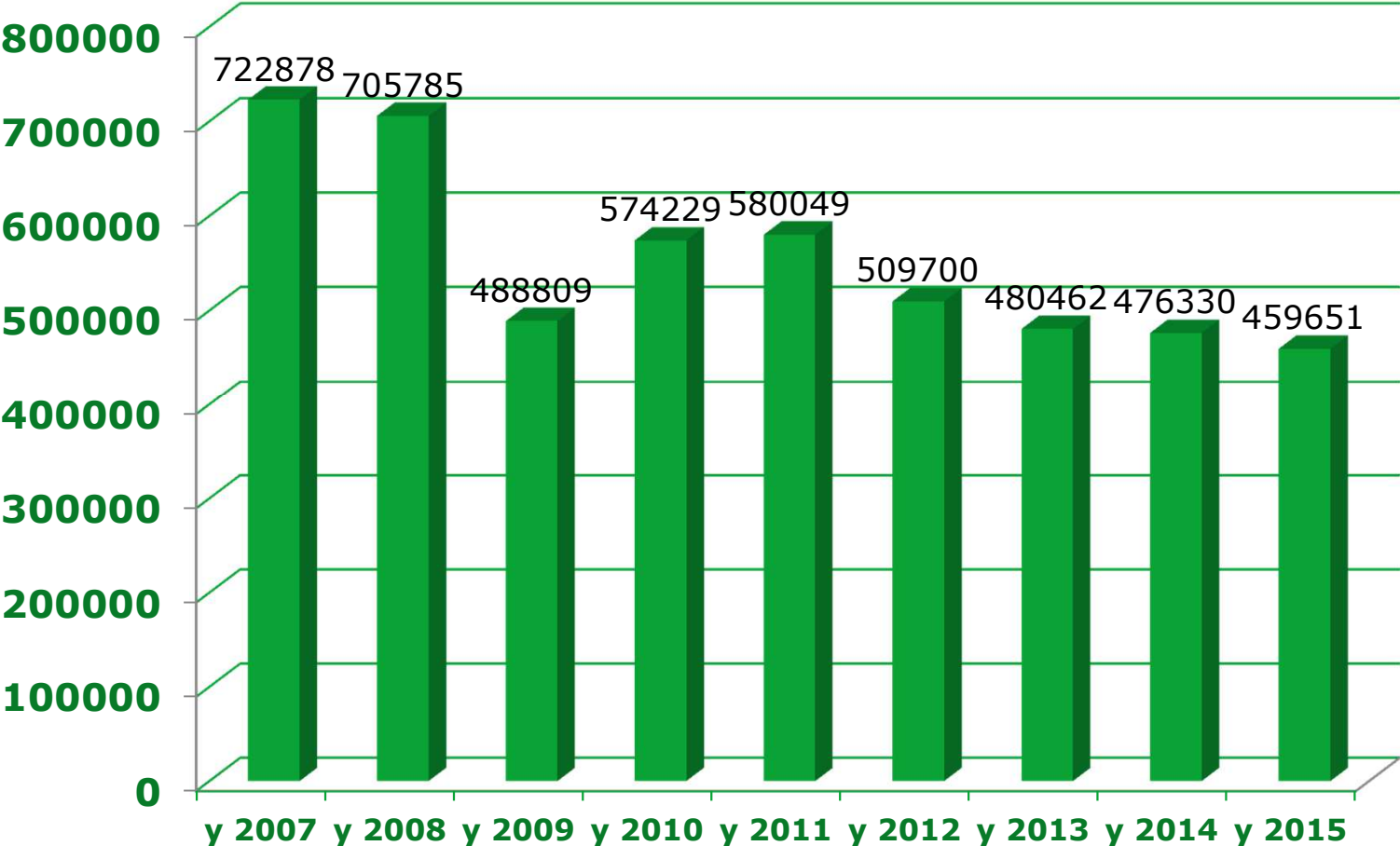
*Responsible traffic.
Bravely together.*



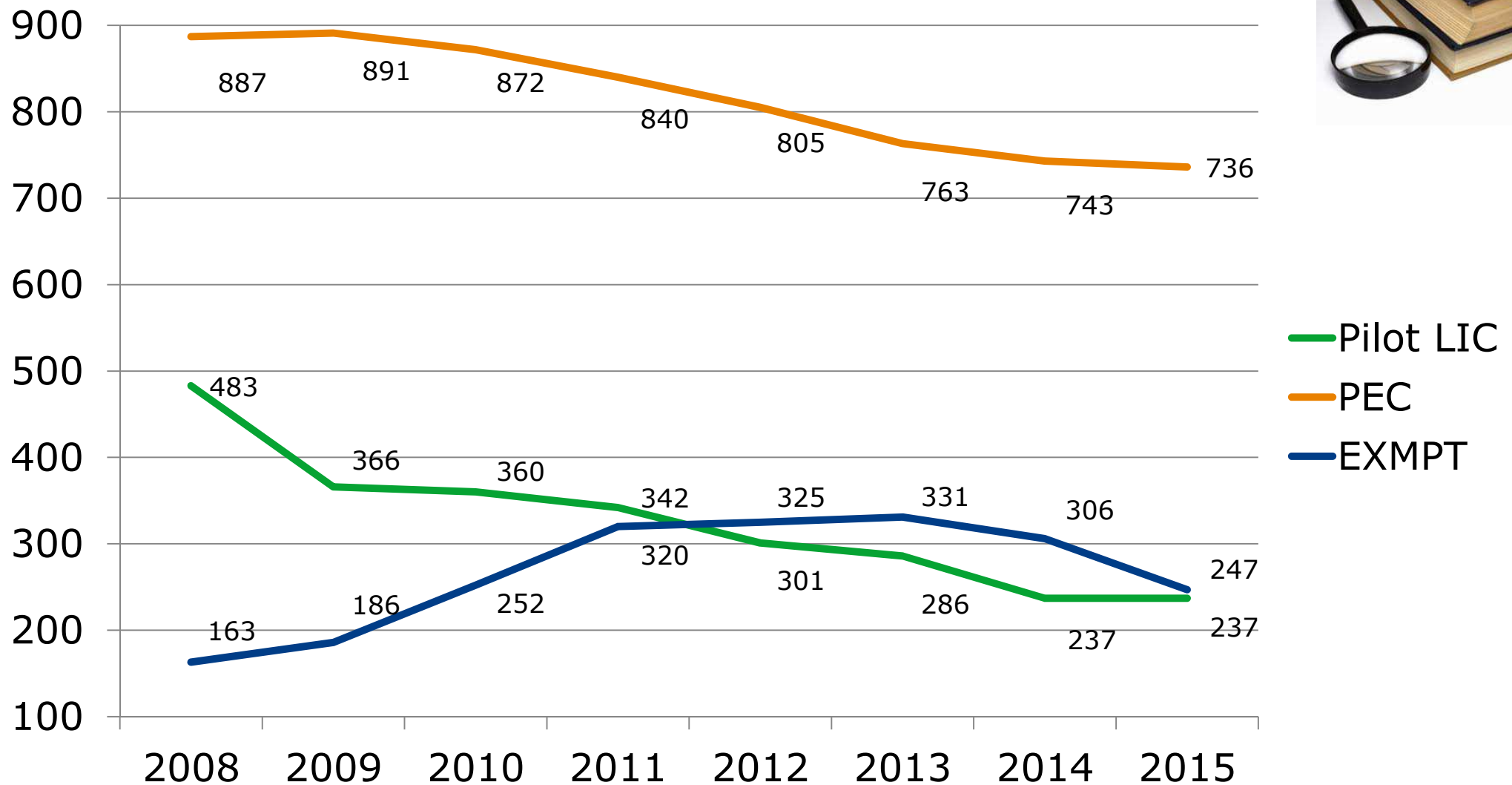
Record of number of Pilotages



Record of Piloted miles



Valid Pilot licences, PEC's & Exemptions



Workload and Stress of Pilots - a Study by Finnish Institute of Occupational Health

- A study on workload and Recovery from stress of Maritime Pilots (and Pilot boat navigators) published 2015
- Questionnaires, measurements of autonomic nervous system when on duty and when off duty (1 week/1 week)
- Abt. 123 pilots answered the questionnaire and abt. 45 pilots were measured
- Typical work hours (pilotage hrs)/week 15-38hrs and one pilotage lasted average 3 hrs (from 0,5hrs to 6hrs)
- 14-28% of the shifts started or ended very late at night or very early in the morning
- "Day shifts" (06-21) 59% and "night shifts" (21-06) 41%



Workload and Stress of Pilots

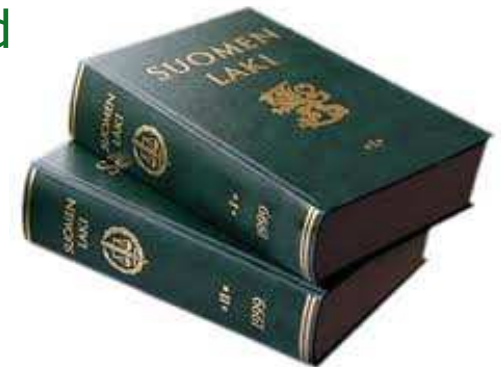
Results

- Results of the measurements indicated that mean cortisol values which relate to hormonal stress were higher than typical values among the other shift workers
- Even during the week off the values were not at normal level which indicated accumulated stress
- Recovery from fatigue was only at moderate level
- Pilots estimated their own fatigue level clearly less than the measurements indicated
- The fatigue levels on the basis of quantity and quality of sleep and the time awake were at risk level in almost 30% of the working days
- Recommendations: human resources, conditions for sleep, organization of work (rhythm of work and sleep), lifestyle, weight control, physical condition



Legislation exercise

- Pilotage act (940/2003) and Government Decree on Pilotage (246/2011) under review:
 - Draft texts were distributed for comments in December 2015
 - Unexpected large amount of comments
 - Further work was required
 - Second round of comments in March/April 2016
 - Still large number of comments with conflicting views
 - Further work carried out by Ministry of Transport and Communications



Thank you

Questions?



Trafi Finnish Transport Safety Agency

Finnish Transport Safety Agency
Kumpulantie 9, 00520 Helsinki
PO Box 320, FI-00101 Helsinki, Finland
Telephone +358 29 534 5000
www.trafi.fi

