



International Association of Public Transport  
Union Internationale des Transports Publics  
Internationaler Verband für öffentliches Verkehrswesen  
Unión Internacional de Transporte Público

## Trolleybus Working Group

# *TWG Projects to be launched: Approving leaders and forming of teams*

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Chairperson of Trolleybus Working Group

15<sup>th</sup> TWG  
Meeting

Yaroslavl,  
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Better mobility for people worldwide

## ***DECLARATION***

***Trolleybus itself is an elegant and state-of-art solution of on-road grid transportation system***

***This is not an ultimate target of on road transport evolution but a stage, niche of a current technological level of industry and society development.***

***We have to know how long we stay on the stage and when and where we must make next step.***

## ***PROPOSITION***

***Broaden of TWG outlook at changings of over-ground transportation systems and vehicles***

***WG members must clearly realize the current position of trolleybus systems and be informed of on-going progress in on road public transport industry, current and approaching regulations and legislations procedures, etc.***

***Contribution of TWG in adjoined UITP and its division's projects to position trolleybus systems correctly***



## ***ACTIVITY***

***Launch our own and mutual project and step into BUS Committee Wgs adjoined to TWG to advocate trolleybus systems (EBSF, FTSO, SORT, etc.), to obtain numerical data and argumentation***

***Step on floor of our 'competitors', partners and approaching innovations' forums***

***Make our meetings devoting to a certain issue***

***Declare the subject of the next meeting on a current one***



## **PURPOSE**

*The main goal of that kind of activity is to **compile data**, to make it **structured**, to produce **analyze** and to release (issue) **quantitative argumentation for advocacy of trolleybus systems** in form of presentations, brochures, regulations, manifests, programs etc.*

*We have to ascertain issues, the barest necessity, for ourselves*

## ***IMPLEMENTATION***

*Project must have an aim and finite term. Project can be re-launched under new circumstances if TWG consider that is necessary.*

*WG project and issuers must be approved by their active members and/or TWG meetings.*

*Projects could substitute sub groups and make an activity transparent and clear.*

## **IMHO**

*All our last advocacy activity (including the Core Brief) have a **crucial lack of figures** to compare trolleybus systems to other on-road public transport systems.*

*I recon we must add several **expressive figures** to our argumentation to have our base stronger.*

*We need to make trolleybuses' definite **advantage countable and tangible.***

## ***EU Transport Commission. New regulations. Can they change up trends?***

***Review of EU and EU Transport Commission initiatives, regulations, standards and recommendations to enhance electrical and/or ecological Public transport (EURO emission regulations, CO2 quotas selling etc.)***



***US, CIS and others countries experience.***

***With UITP EU Commission***





***EBSF – can you see trolleybuses in years?***

***EBSF must include TWG  
supplement with trolleybus  
systems in the future.***

***What could be our mission in  
the project?***



***Can you see?***

## ***HYBRIDS and ELECTROBUSES – in front of or aside to TROLLEYBUS evolution?***

***In collaboration with FTSO (Fuel and Traction Systems Observatory).***

***The issue may be prepared as a supplement to HYBRIDS presentation of FTSO with t-bus status and current level description.***

***This part could be added by a TWG members project group to present a full issue to our members***



## ***Modern t-bus infrastructure. Trends and examples.***

*Extra cost, visual pollution – what else? Our answer to opponents? Our decisions and proposition. If you can't hide anything - make it attractive!*

*We accepted buildings, electrifying lines and poles, bridges, cars, roads and others handmade manifestation as absolute necessity.*

*When and why public (or authorities) perception has changed? What can we offer instead? What infrastructure must be. Examples and drafts.*



# *Public transport Revenue. Does trolleybus takes a special approach?*

*Tender's requirements.*

*Tariff's policy, sharing infrastructure's expenditures. EU policy and domestic examples.*



# ***Dynamical statistics of trolleybus systems***

***Statistical data from the beginning till nowadays.***

***Show the development, stagnation, decadence and renaissance of trolleybus.***



***Moving factors analysis.***

***With TrolleyMotion, Trolleybus UK, ...***

# *How much does it cost to turn wheels? From extraction to revolution.*

*Launch a comparative research of the  
efficiency energy extraction,  
production, transportation and  
conversion assessment.*

*Contact wire, contactless supply,  
ICE-generator, storage units or fuel  
cell...*

*With Industry Committee*



## *How can it work out and why?*

*Attractiveness and interest*

*Understandable subject area of our  
meetings for participants*

*Multi-stage researchers and involving of  
TWG member and supporters in activity*

*Transparent and useful results to position t-  
bus systems*

## ***PROJECT TEAM***

***How much does it cost to rotate wheels?  
Comparative urban public transport's fuel  
efficiency.***

**Dragan BUSARCEVIC, Martin SCHMITZ, Pavel  
KUCH**

***Public transport Revenue. Does trolleybus  
takes a special approach?***

**Conrad TROULLIER, Thomaas Sepp, Eduard  
POKROVSKY**



## ***PROJECT TEAM***

***Expenditures of on road vehicles. Compare trolleybus, diesel, hybrid and electric busses expenditures.***

**Raimondo BRIZZI ALBERTELLI, Juri MALKEN,**

***Dynamical statistics of trolleybus systems. From the beginning up to date.***

**Sergey KOROLKOV, Konstantin KLIMOV, Arno KERKHOF**

## ***PROJECT TEAM***

***How can we be understandable? Tender's requirements and preferences.***

**Adam ZELINSKY, Zdenek VYTOUS, Alexander Kaledin, Gabor DOZSA**

***Modern trolleybus infrastructure. Trends and examples. Extra cost, visual pollution.***

**Daniel STEINER, Juri SCHAFERLING, Juri JIRASEK**

## ***PROJECT TEAM***

Keynote topic for the 16<sup>th</sup> TWG (Parma, Spring 2012)

***How to build and operate on  
an efficient trolleybus system***

**Luc TREMBLAY, Gunter MACKINGER, Gunnar  
Andersson, Dave HASKINS**

## ***PROJECT TEAM***

Keynote topic for the 17<sup>th</sup> TWG (Leipzig, October 2012)

***HYBRIDS and ELECTROBUSES – in front of or  
aside to TROLLEYBUS evolution?***

**Zdenek VYTOUS, Sergey KOROLKOV, Stuart KERR,**

## ***IMPORTANT***

***And, this is very important –  
all members must be  
involved in any project to  
get an output for TWG***

***What can we start with?***

# ***ALL MUST GET CLEAR***

***Thank you for your  
attention!***

***Welcome to questions and discussion!***

***Sergey KOROLKOV, PhD***

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