



International Scientific  
and Technical Conference

# High Speed Railway Development in Poland

28-30.10.2024

Łódź



Polish Association of Transport  
Engineers & Technicians  
National Board

Polish Association of Transport  
Engineers & Technicians  
Branch Radom

## HONORARY PATRONAGE

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Ministry of Infrastructure  
Marshal of the Łódzkie Voivodeship  
Marshal of the Mazowieckie Voivodeship  
Mayor of the city of Łódź  
Office of Rail Transport (UTK)  
Centre for EU Transport Projects (CUPT)  
Polish Chamber of Civil Engineers (PIIB)

## SUBSTANTIVE PATRONAGE

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Railway Research Institute (IK)

## DESIGN FIELD PATRONAGE

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Polish Association of Designers and Engineers (ZOPI)

## SCIENTIFIC AND PROGRAMME BOARD

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### **Ph.D. Jacek Paś**

Head of the Scientific and Programme Board  
Polish Association of Transport Engineers and Technicians National Board (SITK RP)  
President

### **prof. D.Sc. Ph.D. Janusz Dyduch**

Head of High Speed Railway Committee SITK RP  
Polish Association of Transport Engineers and Technicians National Board  
Honorary President / Casimir Pulaski Radom University

### **Piotr Malepszak**

Ministry of Infrastructure  
Undersecretary of State at the Ministry of Infrastructure of Poland

### **Ph.D. Ignacy Góra**

Polish Office of Rail Transport (UTK)  
President

### **Ph.D. Alan Beroud**

Polskie Koleje Państwowe SA (PKP SA)  
President of the Polskie Koleje Państwowe SA

### **Piotr Wyborski**

PKP Polskie Linie Kolejowe SA (PKP PLK SA)  
President of the PKP Polskie Linie Kolejowe SA

### **Zbigniew Szafrąński**

Centralny Port Komunikacyjny Sp. z o.o.  
Head of the Supervisory Board at Centralny Port Komunikacyjny  
Vice-President of High Speed Railway Committee SITK RP for Traction Power Supply systems

**Ph.D. Filip Czernicki**

Centralny Port Komunikacyjny Sp. z o.o.  
President of the Management Board

**D.Sc. Ph.D. Andrzej Massel**

Railway Research Institute (IK)  
Director of the Railway Research Institute

**D.Sc. Ph.D. Marek Pawlik, prof. IK**

Railway Research Institute (IK)  
Vice-Director of Railway Research Institute, Head of Interoperability Division,

**Tomasz Lachowicz**

Head of Representative Office of PKP in Brussels  
NATO TG IST Rail Coordinator / Senior Transport Advisor

**Adrian Mazur**

Ministry of Infrastructure  
Department of Transport Strategy  
Department Director

**Tomasz Warsza**

Ministry of Infrastructure  
Railway Department Director

**Ph.D. Jakub Majewski**

Foundation „Pro Kolej”  
President of the Management Board  
PKP Polskie Linie Kolejowe SA  
Head of the Supervisory Board at the PKP Polskie Linie Kolejowe SA

**Ph.D. Maciej Kaczorek**

PKP Polskie Linie Kolejowe SA,  
Member of the Management Board Director for Strategy and Development  
Head of the National Railway Committee at SITK RP

**prof. D.Sc. Ph.D. Andrzej Szarata**

Cracow University of Technology  
JM Rector of the Cracow University of Technology

**prof. D.Sc. Ph.D. Krzysztof Józwik**

Lodz University of Technology  
JM Rector of the Lodz University of Technology

**\* prof. D.Sc. Ph.D. Krzysztof Zaremba**

Warsaw University of Technology  
JM Rector of the Warsaw University of Technology

**\* prof. D.Sc. Ph.D. Teofil Jesionowski**

Poznan University of Technology  
JM Rector of the Poznan University of Technology

**\* prof. D.Sc. Ph.D. Arkadiusz Wójs**

Wroclaw University of Technology  
JM Rector of the Wroclaw University of Technology

**\* prof. D.Sc. Ph.D. Arkadiusz Mężyk**

Politechnika Śląska  
JM Rektor Politechniki Śląskiej

**\*prof. dr hab. Sławomir Bukowski**

Uniwersytet Radomski  
JM Rektor Uniwersytetu Radomskiego

**\* Brig. Gen. prof. D.Sc. Ph.D. Przemysław Wachulak**

Wojskowa Akademia Techniczna  
JM Rektor - Komendant Wojskowej Akademii Technicznej

**prof. D.Sc. Ph.D. Juliusz Engelhardt**

Szczecin University  
Vice-chairman of High Speed Railway Committee SITK RP

**prof. D.Sc. Ph.D. Andrzej Chudzikiewicz**

Casimir Pulaski Radom University

**prof. D.Sc. Ph.D. Tomasz Siwowski**

Rzeszow University of Technology

**D.Sc. Ph.D. Mirosław Lewandowski, prof. PW**

Warsaw University of Technology

**D.Sc. Ph.D. Filip Pachla, prof. PK**

Cracow University of Technology  
Vice-President of Polish Chamber of Civil Engineers

**D.Sc. Ph.D. Tomasz Perzyński, prof. UR**

Casimir Pulaski Radom University  
Dean of the TEil Faculty

**D.Sc. Ph.D. Piotr Kisielewski, prof. PK**

Cracow University of Technology

**Janusz Malinowski**

PKP Intercity SA  
President of the PKP Intercity SA

**Krzysztof Pietrzykowski**

POLREGIO SA  
President of the POLREGIO SA

**Ph.D. Sławomir Jasiński**

Polish Association of Transport Engineers and Technicians

Vice-President of High Speed Railway Committee SITK RP for Control Systems

**Ph.D. Mariusz Buława**

Polish Association of Transport Engineers and Technicians

Head of Cybersecurity Committee SITK RP

**D.Sc. Ph.D. Michał Wolański prof. SGH**

SGH Warsaw School of Economics, Department of Infrastructure and Mobility Studies

Head of the Institute of Infrastructure, Transport and Mobility SGH

**prof. D.Sc. Ph.D. Adam Szeląg**

Warsaw University of Technology, Institute of Electrical Power Engineering

Traction and Electrical Power, Engineering Economy Division

**Tomasz Szuba**

Polish Association of Transport Engineers and Technicians National Board

Vice-President of High Speed Railway Committee SITK RP for Civil Engineering

**Ph.D. Michał Zięba**

HANTON Szalc Zięba & Partnerzy, Attorney-at-law, Managing Partner

\*the organizers applied for participation in the Scientific and Program Board of the Conference

## ORGANIZING COMMITTEE

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### **Ph.D. Wawrzyniec Wychowański**

Head of the Organizing Committee

Polish Association of Transport Engineers and Technicians National Board

General Secretary

### **Waldemar Fabirkiewicz**

Polish Association of Transport Engineers and Technicians National Board

Secretary of the High Speed Railway Committee SITK RP for Control Systems

Secretary of SITK RP Radom Branch

### **Roman Góralski**

Polish Association of Transport Engineers and Technicians National Board

Head of the Communications Department

### **Ewa Wojdyńska**

Polish Association of Transport Engineers and Technicians National Board

HSR PL 2024 Project Manager

### **Hanna Szary**

Polish Association of Transport Engineers and Technicians National Board

Head of the Conference and Experimental Development Department

### **Katarzyna Gawlik-Tarnowska**

Polish Association of Transport Engineers and Technicians

SITK RP Warsaw Branch

### **Jan Solski**

Polish Association of Transport Engineers and Technicians

SITK RP Radom Branch

### **Maciej Trybulski**

Polish Association of Transport Engineers and Technicians

SITK RP Radom Branch

## MAIN CONFERENCE OBJECTIVES

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The main objectives of the HSR PL 2024 Conference Lodz are listed below::

- Creation of the platform for presentation of the technical knowledge and experiences exchange from the real case studies related to the High Speed Railway implementation as well as the technical, organizational and legal aspects of this process;
- Discussion of the elements of a unified strategy for the development of railway transport in Poland, with special attention paid to the interface between the railway systems in neighboring countries and interconnection into the interoperable EU railway network system in general;
- Organization of space for the exchange of knowledge and experience between countries and foreign companies as well as the scientific community;
- Enhancement and tightening cooperation between science and industry, understood as supporting the commercialization of scientific works and exchange of views on the education of engineering staff due to the dynamic development of the market in Poland and the countries of Central and Eastern Europe.

## CONFERENCE MATERIALS

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Presentations should be sent to the organizers by 26.10.2024 EOD

## PARTICIPATION CONDITIONS

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The condition for participation in the conference is to send a completed participation card and a payment to the below presented bank account of the Polish Association of Transport Engineers and Technicians National Board (SITK RP Zarząd Krajowy)

**Bank account number for participation payments:**  
**PL 06 1160 2202 0000 0006 2162 9658**

The cost of participation in the conference includes all costs of the participant's participation, including participation in the gala and friendly dinner and participation in the technical trip on the third day of the conference.

By using the code **HSR PL 2024** the participants can make a reservation with a special discount. Hotel Andel's direct contact: +48 42 279 15 22 +48 42 279 15 21, or via emails sent: [Reservation.Andels-Lodz@hrg-hotels.com](mailto:Reservation.Andels-Lodz@hrg-hotels.com)

### Conference participation cost:

<b>3500,00 PLN NET</b> + 23% VAT	– with self-accommodation
<b>1900,00 PLN NET</b> + 23% VAT	– self-accommodation and participation in one selected day of the conference with the diner included in

### Reduced conference participation cost dedicated to the:

- Members of Polish Association of Transport Engineers and Technicians;
- Scientific and teaching staff from specialized universities;
- Students from specialized universities;

is agreed at the level of:

<b>2500,00 PLN NET</b> + 23% VAT	– with self-accommodation
<b>1500,00 PLN NET</b> + 23% VAT	– self-accommodation and participation in one selected day of the conference with the diner included in

Please highlight Your intention to take part in a technical trip together with the Conference participation card.

Any resignation from participation shall be sent to the following e-mail address: [hsrpl2024@sitkrp.org.pl](mailto:hsrpl2024@sitkrp.org.pl) by the 25.10.2024 EOD

If You do not cancel your participation within the given deadline, no refund of participation costs will be possible.



## INFORMATION / HELPDESK

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### **Polish Association of Transport Engineers and Technicians**

#### **National Board**

ul. Czackiego 3/5

00-043 Warszawa

e-mail: [hsrpl2024@sitkrp.org.pl](mailto:hsrpl2024@sitkrp.org.pl)

Ewa Wojdyńska / HSR PL 2024 Project Manager

Mobile: + 48 692 556 037

### **EN Language Conference Contact:**

#### **SITK RP National Board**

e-mail: [hsrpl2024@sitkrp.org.pl](mailto:hsrpl2024@sitkrp.org.pl)

Wawrzyniec Wychowański

Mobile: + 48 505 787 221

### **Polish Association of Transport Engineers and Technicians**

#### **Radom Branch**

ul. prof. W. Krukowskiego 1

26-600 Radom

e-mail: [hsrpl2024@sitkrp.org.pl](mailto:hsrpl2024@sitkrp.org.pl)

Waldemar Fabirkiewicz

Mobile: + 48 607 885 540

#### **HINT:**

*The entire conference will be simultaneously translated into English and Polish.*

## GENERAL CONFERENCE SCHEDULE

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### 28.10.2024 MONDAY

Location: ŁÓDŹ MANUFAKTURA  
Vienna House Andel's  
ul. Ogrodowa 17, 91-065 Łódź

**CONFERENCE GUEST REGISTRATION** [60 min]  
**09:00 – 10:00**

**PLENARY SESSION** [90 min]  
**10:00 – 11:30**

10:00 – 10:05 Conference Guest welcome [05 min]

10:05 – 10:15 Conference opening [10 min]

**Ph.D. Jacek Paś**

Head of the Scientific and Programme Board,  
Polish Association of Transport Engineers and Technicians National Board (SITK RP)  
President

**prof. D.Sc. Ph.D. Janusz Dyduch**

Head of High Speed Railway Committee SITK RP  
Polish Association of Transport Engineers and Technicians National Board  
Honorary President / Casimir Pulaski Radom University

10:15 – 10:45 Conference opening speech [30 min]  
Speeches under the substantive patronage of the Ministry of Infrastructure

**Dariusz Klimczak**

Minister of Infrastructure

**Ph.D. Alan Beroud**

International union of railways (UIC)  
UIC Chairman

**Dariusz Joński**

European Parliament,  
Committee on Transport and Tourism (TRAN)

10:45 – 11:30      Honorary Guest, Co-organizer Representatives and Conference Partners welcome speeches      [45 min]

**Honorary Guest, Co-organizer Representatives and Conference Partners**

**DISCUSSION PANEL 01**      [90 min]  
**11:30 – 13:00**

**DISCUSSION PANEL UNDER THE PATRONAGE OF THE MINISTRY OF INFRASTRUCTURE**

**High Speed Railway for Poland**

Moderator 1:      **Ph.D. Jacek Paś**  
Head of the Scientific and Programme Board,  
Polish Association of Transport Engineers and Technicians National Board (SITK RP)  
President

Moderator 2:      **Ph.D. Jakub Majewski**  
Foundation „Pro Kolej”  
President of the Management Board  
  
PKP Polskie Linie Kolejowe SA  
Head of the Supervisory Board at the PKP Polskie Linie Kolejowe SA

11:30 – 11:45      Discussion Panel opening speech      [15 min]

**Piotr Malepszak**  
Ministry of Infrastructure  
Undersecretary of State at the Ministry of Infrastructure of Poland

11:45 – 13:00      Discussion Panel      [75 min]

**Discussion Panel Participants:**

1. **Piotr Malepszak**  
Ministry of Infrastructure  
Undersecretary of State at the Ministry of Infrastructure of Poland

2. **Ph.D. Alan Beroud**  
Polskie Koleje Państwowe SA (PKP SA)  
President of the Polskie Koleje Państwowe S.A
3. **Kristian Schmidt**  
European Union European Commission  
Directorate-General for Mobility and Transport (DG MOVE)  
Director Land Transport  
/ remote /
4. **Francois Davenne**  
International union of railways (UIC)  
Director General
5. **Dr Alberto Mazzola**  
Community of European Railways and Infrastructure Managers (CER)  
Executive Director
6. **Enno Wiebe**  
Union des Industries Ferroviaires Européennes (UNIFE)  
Director General

**LUNCH / NETWORKING**  
**13:00 – 14:00**

**[60 min]**

**DISCUSSION PANEL 02**  
**14:00 – 15:30**

**[90 min]**

#### DISCUSSION PANEL UNDER THE PATRONAGE OF THE CENTRALNY PORT KOMUNIKACYJNY

PKP PLK and CPK investments are an opportunity for the development of Łódź and Central Poland

Moderator 1: **Zbigniew Szafrński**  
Centralny Port Komunikacyjny Sp. z o.o.  
Head of the Supervisory Board at Centralny Port Komunikacyjny

Moderator 2: **Ph.D. Wawrzyniec Wychowański**  
Polish Association of Transport Engineers and Technicians National Board  
General Secretary

14:00 – 14:15      Discussion Panel opening speech      [15 min]

WHY DO ŁÓDŹ HAVE AN UNDERGROUND RAILWAY STATION AND TUNNELS  
UNDER THE CITY CENTER?

**Zbigniew Szafrński**

Centralny Port Komunikacyjny Sp. z o.o.

Head of the Supervisory Board at Centralny Port Komunikacyjny Sp. z o.o.

14:15 – 15:30      Discussion Panel      [75 min]

Discussion Panel Participants:

1. **Piotr Rachwalski**  
Centralny Port Komunikacyjny Sp. z o.o.  
Member of the Management Board
2. **Adam Pustelnik**  
Urząd Miasta Łodzi  
I Vice-president City of Lodz
3. **Ph.D. Maciej Kaczorek**  
PKP Polskie Linie Kolejowe SA  
Member of the Management Board
4. **Maciej Sobieraj**  
Łódzka Kolej Aglomeracyjna Sp. z o.o.  
President of the Management Board
5. **D.Sc. Ph.D. Michał Wolański prof. SGH**  
SGH Warsaw School of Economics, Department of Infrastructure and  
Mobility Studies, Head of the Institute of the Infrastructure, Transport and  
Mobility SGH

**COFFEE BREAK / NETWORKING**      [30 min]  
**15:30 – 16:00**

**DISCUSSION PANEL 03**  
**16:00 – 17:30**

**[90 min]**

**DISCUSSION PANEL UNDER THE PATRONAGE OF PKP POLSKIE LINIE KOLEJOWE SA.**

The role of high speed rail as an element of the TEN-T network in the development  
of an integrated European railway system

Moderator 1: **dr inż. Mariusz Buława**  
Polish Association of Transport Engineers and Technicians  
Head of Cybersecurity Committee SITK RP

Voestalpine Signalling Poland Sp z o.o.  
Managing Director, CEO

Moderator 2: **D.Sc. Ph.D. Andrzej Massel**  
Railway Research Institute (IK)  
Director of the Railway Research Institute

16:00 – 16:15 Discussion Panel opening speech **[15 min]**

**Piotr Wyborski**  
PKP Polskie Linie Kolejowe SA (PKP PLK SA)  
President of the PKP Polskie Linie Kolejowe SA

16:15 – 17:30 Discussion Panel **[75 min]**

**Discussion Panel Participants:**

1. **Piotr Wyborski**  
PKP Polskie Linie Kolejowe SA (PKP PLK SA)  
President of the PKP Polskie Linie Kolejowe SA
2. **Vytis Zalimas**  
AB LTG Infra  
LTG Infra Chief Executive Officer
3. **Zbigniew Szafrński**  
Centralny Port Komunikacyjny Sp. z o.o.  
Head of the Supervisory Board at Centralny Port Komunikacyjny Sp. z o.o.
4. **Marius Narmontas**  
RB RAIL AS | RAIL BALTICA AS  
Chief Operations Officer (COO)

5. **Dariusz Kowsar**  
SNCF Réseau, France  
Directeur Europe
6. **Radek Cech**  
Správa Železnic, Republika Czeska  
Director of International Affairs Department

**COFFEE BREAK / NETWORKING**  
**17:30 – 17:45**

**[15 min]**

**DISCUSSION PANEL 04**  
**17:45 – 19:15**

**[90 min]**

**DISCUSSION PANEL UNDER THE PATRONAGE OF PKP POLSKIE KOLEJE PAŃSTOWE SA**

**Complementary services for the High Speed Railway system**

Moderator 1: **Tomasz Lachowicz**  
Head of Representative Officer of PKP SA in Brussels  
NATO TG IST Rail Coordinator / Senior Transport Advisor

Moderator 2: **Ph.D. Wawrzyniec Wychowański**  
Polish Association of Transport Engineers and Technicians National Board  
General Secretary

17:45 – 18:00      Discussion Panel opening speech      **[15 min]**

**Ph.D. Alan Beroud**  
Polskie Koleje Państwowe SA (PKP SA)  
President of the Polskie Koleje Państwowe SA

18:00 – 19:15      Discussion Panel      **[75 min]**

1. **Andrzej Bułczyński**  
Polskie Koleje Państwowe SA (PKP SA)  
Member of the Management Board
2. **Janusz Malinowski**  
PKP Intercity SA  
President of the PKP Intercity SA

**Krzysztof Krasowski \***  
PKP Intercity SA  
Director of the Product and Timetable Office

3. **Wojciech Dinges**  
POLREGIO SA  
Vice President of the Management Board
4. **Katarzyna Strzegowska**  
Public Transport Authority in Warsaw (ZTM Warszawa)  
Director
5. **Bartłomiej Zgorzelski**  
City of Łódź, Social Plenipotentiary of the Mayor of Łódź for Supporting  
Development and Entrepreneurship
6. **Artur Fryczkowski**  
Polish Chamber of Railways  
Member of the Supervisory  
  
ALSTOM  
Vice President Alstom in Poland  
Commercial Director
7. **Cezary Lis**  
Polish Association of Transport Engineers and Technicians National Board  
High Speed Railway Committee SITK RP  
  
HITACHI ENERGY  
Transportation Segment Manager
8. **Krzysztof Zdziarski**  
Łukasiewicz – Poznan Institute of Technology (PIT)  
Institute Board Member  
  
PESA BYDGOSZ SA  
President of the Management Board, Managing Director

**CONCLUSION OF THE FIRST DAY OF CONFERENCE**  
**19:15 – 19:30**

**[15 min]**



**GALA DINNER / NETWORKING**  
**20:15 – last Guests ... :-)**

**[ :-) min ]**

Location: **MANUFATURA LODZ HOTEL ANDELS**  
**BALLROOM 3<sup>rd</sup> FLOOR**  
Vienna House Andel's Łódź  
Ul. Ogrodowa 17, 91-065 Łódź, PL

**>>> 2024/10/28 END OF THE 1<sup>ST</sup> DAY OF THE CONFERENCE HSR PL 2024 <<<**

## **29.10.2024 TUESDAY**

Location: ŁÓDŹ MANUFAKTURA  
Vienna House Andel's Łódź  
Ul. Ogrodowa 17, 91-065 Łódź

### **SESSION WITH PRESENTATIONS 01** **09:00 – 10:30**

**[90 min]**

#### **INFRASTRUCTURE 01 – ENGINEERING STRUCTURES** *(session with presentations)*

Moderator 1: **prof. D.Sc. Ph.D. Tomasz Siwowski**  
Rzeszow University of Technology im. Ignacego Łukasiewicza  
Faculty of Civil and Environmental Engineering and Architecture  
Department of Roads and Bridges, Head of the Department

Moderator 2: **prof. D.Sc. Ph.D.. Marek Cała**  
University of Science and Technology in Krakow  
Faculty of Civil Engineering and Resource Management  
Department of Civil & Geotechnical Engineering and Geomechanics

09:00 – 09:15 Presentation Centralny Port Komunikacyjny Sp. z o.o. **[15 min]**

#### **ENGINEERING STRUCTURES ALONG THE HIGH-SPEED RAIL LINES IN POLAND**

**Grzegorz Piotrowski**  
Centralny Port Komunikacyjny Sp. z o.o.  
Railway Division Director

09:15 – 09:30 Presentation Railway Research Institute **[15 min]**

#### **HSR RAILWAY TUNNELS IN CPK RAILWAY STANDARDS**

**Ph.D. Jolanta Radziszewska-Wolinska, prof. IK**  
Railway Research Institute  
Materials & Structure Laboratory  
Head of the Materials & Structure Laboratory

**Adrian Kazmierczak**  
Railway Research Institute  
Materials & Structure Laboratory  
Expert

09:30 – 09:45      Presentation BUDIMEX SA      [15 min]

BUDIMEX HIGH SPEED RAILWAY READINESS FOR END TO END  
CIVIL ENGINEERING PROJECTS

**Piotr Wawrzycski**  
BUDIMEX SA  
Railway Construction Department  
Region 3 Director

09:45 – 10:00      Presentation PORR SA      [15 min]

PORR'S EXPERIENCE IN THE CONSTRUCTION OF HIGH-SPEED RAILWAY  
TUNNELS AND MODERN BALLASTLESS SURFACE TECHNOLOGIES  
(PORR SLAB TRACK)

**Wojciech Nowak**  
PORR SA  
Head of Tunneling Department in PORR SA

**Michał Kościelniak**  
PORR SA  
Regional Director in Railway Department

10:00 – 10:15      Presentation GÜLERMAK      [15 min]

GÜLERMAK: EXPERIENCES IN HIGH SPEED LINES AND RAILWAY  
TUNNELS

**Dawid Gumiński**  
GÜLERMAK  
METRO LINE II in Warsaw Deputy Project Manager  
Technical Manager

10:15 – 10:30      Presentation KELLER Polska Sp. z o.o.      [15 min]

RAILROAD NETWORK CONSTRUCTION- GEOTECHNICAL SOLUTIONS.  
CHALLENGES AND OPPORTUNITIES

**Artur Gaszewski**  
Keller Polska Sp. z o.o.  
Managing Director, Member of the Management Board of Keller

**COFFEE BREAK / NETWORKING**      [30 min]  
**10:30 – 11:00**

**SESSION WITH PRESENTATIONS 02**  
**11:00 – 13:00**

**[120 min]**

**INFRASTRUCTURE 02 – RAILWAY ROAD**  
*(session with presentations)*

Moderator 1:	<b>Ph.D. Jacek Paś</b> Head of the Scientific and Programme Board, Polish Association of Transport Engineers and Technicians National Board President	
Moderator 2:	<b>Tomasz Szuba</b> Polish Association of Transport Engineers and Technicians National Board Vice-President of High Speed Railway Committee SITK RP for Civil Engineering	
11:00 – 11:15	Presentation Centralny Port Komunikacyjny Sp. z o.o.  RAILROAD INFRASTRUCTURE IN HIGH-SPEED RAIL SYSTEMS  <b>Michał Kazimierczak</b> Centralny Port Komunikacyjny Sp. z o.o. Deputy Director for Railway Design Department   Railway Subprogramme Strategy & Planning, Design & Engineering Department	[15 min]
11:15 – 11:30	Presentation PKP Polskie Linie Kolejowe  EFFECTIVE MAINTENANCE OF THE INFRASTRUCTURE SUBSYSTEM  <b>Michał Migdal</b> PKP Polskie Linie Kolejowe SA Railway Roads Department, Deputy Director	[15 min]
11:30 – 11:45	Presentation Railway Research Institute  HSR PERMANENT WAY IN CPK HSR STANDARDS  <b>Krzysztof Ochocinski</b> Railway Research Institute Railway Track and Operation Department Head of the Department  <b>Iwona Nowosinska</b> Railway Research Institute Railway Track and Operation Department Expert	[15 min]

11:45 – 12:00	Presentation TINES RAIL SA	[15 min]
	TRACK SUPERSTRUCTURE SOLUTIONS FOR HIGH SPEED RAIL	
	<b>Michał Rybacki</b> TINES RAIL SA Implementation and Innovation Manager	
12:00 – 12:15	Presentation voestalpine Railway Systems	[15 min]
	HIGH SPEED TURNOUT SYSTEM	
	<b>Burkhard Zillien</b> Voestalpine Turnout Technology Germany Head of Product Management Competence Centre Highspeed	
12:15 – 12:30	Presentation HERRENKNECHT AG	[15 min]
	HIGH SPEED RAILWAY TUNNELS IN EUROPE APPROPRIATE SELECTION OF TBM TECHNOLOGY IN HIGHLY URBANIZED AREA	
	<b>Dymitr Petrow-Ganew</b> HERRENKNECHT AG Area Sales Manager CEE Region at Herrenknecht AG	
12:30 – 12:45	Presentation voestalpine Railway Systems	[15 min]
	HIGH SPEED TRACK SYSTEM – MODERN RAILS AND FASTENINGS	
	<b>Anna Baruchovych</b> voestalpine Rail Technology GmbH Product Manager	
	<b>Robert Demal</b> voestalpine Railway Systems GmbH Head of R&D Fixations	
12:30 – 12:45	Presentation SYSTRA ITALY	[15 min]
	SYSTRA ITALY – EXCELLENCE IN UNDERGROUND RAILWAY SOLUTIONS	
	<b>Emiliano Nuzzo</b> Systra S.p.A. Project Managers Lead	

**LUNCH / NETWORKING**  
**13:00 – 13:30**

**[30 min]**

**SESSION WITH PRESENTATIONS 03**  
**13:30 – 15:45**

**[135 min]**

**WHOLE LINE SYSTEMS 01 – TRAIN TRAFFIC MANAGEMENT AND CONTROL SYSTEMS AND  
TRAIN TO GROUND TRANSMISSION SYSTEMS**  
*(session with presentations)*

Moderator 1: **D.Sc. Ph.D. Marek Pawlik, prof. IK**  
Railway Research Institute (IK)  
Vice-Director of Railway Research Institute, Head of Interoperability Division

Moderator 2: **Ph.D. Sławomir Jasiński**  
Polish Association of Transport Engineers and Technicians National Board  
Vice-President of High Speed Railway Committee SITK RP for  
Control Systems

13:30 – 13:45 Presentation Centralny Port Komunikacyjny Sp. z o.o. [15 min]

SIGNALING SYSTEM FOR HIGH-SPEED RAIL IN POLAND

**Mateusz Malinowski**  
Centralny Port Komunikacyjny Sp. z o.o., Design & Engineering Department,  
Deputy Director for „CCS” and „Energy” subsystems

13:45 – 14:00 Presentation PKP Polskie Linie Kolejowe [15 min]

TRAIN TRAFFIC MANAGEMENT UNDER ETCS SYSTEM ON HIGH SPEED  
LINES – LEGAL RELATED ASPECTS

**Ph.D. Piotr Wulgaris**  
PKP Polskie Linie Kolejowe SA  
Head of the Signalling Department

14:00 – 14:15 Presentation Railway Research Institute [15 min]

HSR CONTROL COMMAND AND SIGNALLING IN CPK RAILWAY  
STANDARDS

**D.Sc. Ph.D. Andrzej Toruń, prof. IK**  
Railway Research Institute  
Railway Traffic Control and Telecom Department  
Head of the Department

	<b>Pawel Gradowski</b> Railway Research Institute Railway Traffic Control and Telecom Department Expert	
14:15 – 14:30	Presentation Railway Research Institute	[15 min]
	HSR COMMUNICATION AND TELE-TECHNOLOGY IN CPK RAILWAY STANDARDS	
	<b>Ph.D. Marek Sumiła</b> Railway Research Institute Signalling and Telecommunication Laboratory Head of the Laboratory	
	<b>Krzysztof Tchórzewski</b> Railway Research Institute Signalling and Telecommunication Laboratory Expert	
14:30 – 14:45	Presentation Hitachi Rail GTS Polska Sp. o.o.	[15 min]
	TIME, MONEY, SAFETY – A NEW APPROACH TO TENDERS FOR THE TRAIN TRAFFIC CONTROL SYSTEMS	
	<b>Tomasz Pałaszewski</b> Hitachi Rail GTS Polska Sp. o.o. Key Account Manager	
14:45 – 15:00	Presentation voestalpine Railway Systems	[15 min]
	TURNOUT SYSTEM IN DIGITAL RAILWAYS	
	<b>Ph.D. Mariusz Buława</b> voestalpine Signaling Poland Sp. z o.o. Managing Director, CEO	
15:00 – 15:15	Presentation ALSTOM	[15 min]
	ON SITE EXPERIENCES AND SOLUTIONS FOR HIGH SPEED RAILWAY	
	<b>Adam Juretko</b> ALSTOM Managing Director at Alstom Katowice, Digital and Integrated Systems CEE Central w Alstom	

15:15 – 15:30      Presentation KOMBUD GROUP SA      [15 min]

TRAIN TRAFFIC CONTROL LINEAR SYSTEMS INTERFACE

**Konrad Bartosiak**  
KOMBUD GROUP SA  
Project Coordinator – CCS Systems

**Anna Górna**  
KOMBUD GROUP SA  
Project Coordinator – CCS Systems

15:30 – 15:45      Presentation AZD PRAHA s.r.o.      [15 min]

ADVANCED TMS SOLUTIONS – FIELD EXPERIENCE AND POTENTIAL  
FOR THE KDP SYSTEM

**Ing. Michał Matowicki, Ph.D.**  
AZD PRAHA s.r.o.  
System engineer, Cluster Leader for Autonomous Railway

**COFFEE BREAK / NETWORKING**      [15 min]  
**15:45 – 16:00**

**SESSION WITH PRESENTATIONS 04**      [105 min]  
**16:00 – 17:15**

**WHOLE LINE SYSTEMS 02 – TRACTION ANALYSIS, TRACTION POWER SUPPLY  
AND OVERHEAD LINE SYSTEM**  
*(session with presentations)*

session under general patronate of  
HITACHI ENERGY POLAND SP. Z O.O.

Moderator 1:      **prof. D.Sc. Ph.D. Adam Szeląg**  
Warsaw University of Technology, Institute of Electrical Power Engineering,  
Traction and Electrical Power, Engineering Economy Division

Moderator 2:      **Ph.D. Wawrzyniec Wychowański**  
Polish Association of Transport Engineers and Technicians National Board  
General Secretary



- 16:00 – 16:15      Presentation Centralny Port Komunikacyjny Sp. z o.o.      [15 min]
- 2x25 KV TRACTION POWER SUPPLY FOR HIGH-SPEED RAIL IN POLAND
- Mateusz Malinowski**  
Centralny Port Komunikacyjny Sp. z o.o., Design & Engineering Department,  
Deputy Director for „CCS” and „Energy” subsystems
- 16:15 – 16:30      Presentation PKP Polskie Linie Kolejowe      [15 min]
- PKP POLSKIE LINIE KOLEJOWE S.A. ACTIVITIES IN THE SCOPE OF  
IMPLEMENTATION OF AC BASED TRACTION  
POWER SUPPLY SYSTEM
- Radosław Burak-Romanowski**  
PKP Polskie Linie Kolejowe SA  
Head of the Energy Department
- 16:30 – 16:45      Presentation Railway Research Institute      [15 min]
- HSR TRACTION POWER SUPPLY IN CPK RAILWAY STANDARDS
- Ph.D. Artur Rojek**  
Railway Research Institute  
Electric Power Department  
Head of the Department
- prof. D.Sc. Ph.D. Valeriy Kuznetsov**  
Railway Research Institute  
Electric Power Department  
Expert
- 16:45 – 17:00      Presentation Hitachi Energy Poland Sp. z o.o.      [15 min]
- TRANSFORMER AS AN ESSENTIAL COMPONENT OF ANY  
POWER SYSTEM
- Eligiusz Hasiak**  
Hitachi Energy Poland Sp. z o.o.  
Market Manager
- Robert Szejn**  
Hitachi Energy Poland Sp. z o.o.  
Area Sales Manager

17:00 – 17:15      Presentation 05 SIEMENS ENERGY Sp z o.o.      [15 min]

TURN KEY PROJECT HV/MV SUBSTATION WITH SF6 FREE SOLUTION

**Bartłomiej Mazurek**  
SIEMENS ENERGY Sp z o.o.  
Director of Key Accounts

17:00 – 17:15      Presentation KOLEN Sp. z o.o.      [15 min]

SEPARATION BETWEEN EARTHING SYSTEMS BETWEEN TRACTION  
(DC AND AC) AND PUBLIC ELECTRICITY DISTRIBUTION NETWORK.

**Zygmunt Kulhawik**  
KOLEN Sp. z o.o.  
President of the Management Board, Managing Director

17:15 – 17:30      Presentation Warsaw University of Technology Faculty of Electrical  
Engineering      [15 min]

SELECTED ASPECTS OF HIGH-SPEED RAILWAY CATENARY

**dr hab. inż. Tadeusz Maciołek, prof. PW**  
Warsaw University of Technology, Faculty of Energy Engineering

**COFFEE BREAK / NETWORKING**      [30 min]  
**17:30 – 18:00**

**SESSION WITH PRESENTATIONS 05**      [90 min]  
**18:00 – 19:30**

ENVIRONMENTAL, ORGANIZATIONAL AND LEGAL ASPECTS FOR THE IMPLEMENTATION  
OF A HIGH-SPEED RAIL SYSTEM IN POLAND  
*(session with presentations)*

session under general patronate of  
THE PUBLIC PROCUREMENT LAW ASSOCIATION (SPZP)

Moderator 1:      **prof. D.Sc. Ph.D. Juliusz Engelhardt**  
Polish Association of Transport Engineers and Technicians National Board  
Vice-President of High Speed Railway Committee SITK RP

Moderator 2:	<b>dr hab. Janusz Bohatkiewicz, prof. PK</b> Road and Bridge Research Institute, Institute Director, Cracow University of Technology Katedra Dróg, Kolei i Inżynierii Ruchu
18:00 – 18:15	<p>Presentation Public Procurement Law Association (SPZP) [15 min]</p> <p>ACCESS OF NON-EU CONTRACTORS TO TENDERS IN POLAND AND THE OBLIGATION TO CHECK FOREIGN SUBSIDIES IN PUBLIC PROCUREMENT - PRACTICAL ISSUES</p> <p><b>Aldona Kowalczyk</b> Partner at Dentons, Public Procurement Law Association;</p>
18:15 – 18:30	<p>Presentation Public Procurement Law Association (SPZP) [15 min]</p> <p>THE STRUCTURE OF PARTICIPATION IN THE PROCEDURE IN THE CONTEXT OF OPTIMAL USE OF THE EXPERIENCE AND RESOURCES OF FOREIGN CONTRACTORS.</p> <p><b>Tomasz Michalczyk</b> Partner at DZP, Public Procurement Law Association</p>
18:30 – 18:45	<p>Presentation Public Procurement Law Association (SPZP) [15 min]</p> <p>MISLEADING THE CONTRACTING AUTHORITY VS. EXCLUSION FROM THE PROCEEDINGS. INFRASTRUCTURE TENDERS.</p> <p><b>Piotr Trębicki,</b> partner at Trębicki Hołowińska Law Firm, Public Procurement Law Association</p>
18:45 – 19:00	<p>Presentation Polish Office of Rail Transport (UTK) [15 min]</p> <p>SAFETY IN HIGH SPEED RAILWAY SYSTEM IN POLAND</p> <p><b>Joanna Krzysztofiak</b> Polish Office of Rail Transport (UTK) Head of the Technics and Products Department</p>

19:00 – 19:15      Presentation Centralny Port Komunikacyjny Sp. z o.o.      [15 min]

ENVIRONMENTAL ASPECTS OF IMPLEMENTING THE HIGH-SPEED  
RAIL SYSTEM IN POLAND

**Michał Boczula**

Centralny Port Komunikacyjny Sp. z o.o.  
Team Leader / Railway Designer

19:15 – 19:30      Presentation PKP Polskie Linie Kolejowe      [15 min]

ENVIRONMENTAL ASPECTS IN THE PREPARATION AND  
IMPLEMENTATION OF RAILWAY INVESTMENTS – SELECTED ASPECTS

**Ewa Makosz**

PKP Polskie Linie Kolejowe SA  
Head of the Environment Protection Department

19:30 – 19:45      Presentation Railway Research Institute      [15 min]

INTEROPERABILITY, INTRAOPERABILITY, AND SAFETY OF THE HSR  
IN ACCORDANCE WITH CPK RAILWAY STANDARDS

**D.Sc. Ph.D. Marek Pawlik, prof. IK**

Railway Research Institute (IK)  
Vice-Director of Railway Research Institute, Head of Interoperability Division

19:45 – 20:00      Presentation Casimir Pulaski Radom University      [15 min]

HIGH SPEED RAILWAY RESEARCH LABORATORY

**prof. D.Sc. Ph.D. Janusz Dyduch**

Head of High Speed Railway Committee SITK RP  
Polish Association of Transport Engineers and Technicians National Board  
Honorary President / Casimir Pulaski Radom University

**D.Sc. Ph.D. Tomasz Perzyński, prof. U Rad**

Casimir Pulaski Radom University,  
Faculty of Transport Electrotechnics and Informatics (WTEiI)  
Dean of the Faculty

**CASUAL FRIENDS DINNER / NETWORKING**  
**20:15 – last guests ... :-)**

**[ ... :-) min]**

Location: **RESTAURANT HOTEL ANDELS**  
Ogrodowa 17  
00-667 Łódź

**>>> 2024/10/29 END OF THE 2<sup>nd</sup> DAY OF THE CONFERENCE HSR PL 2024**

**30.10.2024 WEDNESDAY**

Location: ŁÓDŹ MANUFAKTURA  
Vienna House Andel's Łódź  
Ul. Ogrodowa 17, 91-065 Łódź

**SESSION WITH PRESENTATIONS 01**  
**09:00 – 10:30**

**[90 min]**

**ROLLING STOCK 01 – HIGH SPEED RAILWAY AND THE COMPLEMENTARY TRANSPORT**  
*(session with presentations)*

Moderator 1: **prof. dr hab. inż. Marek Stanisław Sitarz**  
WSB University  
Head of the Transport and Informatics Department

Moderator 2: **dr hab. inż. Piotr Kisielewski prof. PK**  
Cracow University of Technology  
Rolling Stock and Transport Department

09:00 – 09:15 Presentation Centralny Port Komunikacyjny Sp. z o.o. [30 min]

HORIZONTAL TIMETABLE AS A TOOL FOR DETERMINING ROLLING  
STOCK REQUIREMENTS FOR HIGH-SPEED RAIL

**Michał Jasiak**  
Centralny Port Komunikacyjny Sp. z o.o.  
p.o. Dyrektora Biura, Pion Kolejowy, Biuro KPR

09:15 – 09:30 Presentation Cracow University of Technology [15 min]

HIGH SPEED RAILWAYS – GLOBAL TRENDS AND  
POLISH PERSPECTIVE

**dr hab. inż. Piotr Kisielewski prof. PK**  
Cracow University of Technology  
Rolling Stock and Transport Department

09:30 – 09:45	Presentation PKP INTERCITY SA	[15 min]
	ZA MAŁO TABORU CZY ZBYT RZADKI ROZKŁAD JAZDY? TAKTOWY ROZKŁAD JAZDY A ZAPOTRZEBOWANIE NA TABOR NA PRZYKŁADZIE ROZKŁADU JAZDY 2024/25	
	<b>Krzysztof Krasowski</b> PKP Intercity SA Director of the Product and Timetable Office	
09:45 – 10:00	Presentation Centralny Port Komunikacyjny	[15 min]
	COMPETITION IN FOREIGN MARKETS AND ITS IMPACT ON THE PROCESS OF PLANNING THE HORIZONTAL TIMETABLE	
	<b>Bartosz Morga</b> Centralny Port Komunikacyjny Senior Specialist in Transport Infrastructure Planning	
10:00 – 10:15	Presentation Łódzka Kolej Aglomeracyjna Sp. z o.o.	[15 min]
	ŁÓDŹ FABRYCZNA HUB as an important element of the development strategy for ŁKA passenger services in the Łódź agglomeration	
	<b>Maciej Sobieraj</b> Łódzka Kolej Aglomeracyjna Sp. z o.o. President of the Management Board	
10:15 – 10:30	Presentation Centralny Port Komunikacyjny	[15 min]
	INTEGRATED RAILWAY NETWORK	
	<b>Paweł Pokora</b> Centralny Port Komunikacyjny Coordinator for Operational and Operational Analysis	
COFFEE BREAK / NETWORKING 10:30 – 10:45		[15 min]

**SESSION WITH PRESENTATIONS 02**  
**10:45 – 12:45**

**[120 min]**

**ROLLING STOCK 02 – HIGH SPEED RAILWAY TRAINS AND TRAINBORNE SYSTEMS**  
*(session with presentations)*

**Moderator 1:**

**dr hab. inż. Jacek Wesołowski**  
Lodz University of Technology  
Faculty of Civil Engineering, Architecture and  
Environmental Engineering

**Moderator 2:**

**D.Sc. Ph.D. Andrzej Toruń, prof. IK**  
Railway Research Institute  
Railway Traffic Control and Telecom Department  
Head of the Department

**10:45 – 11:15**

**Presentation Centralny Port Komunikacyjny Sp. z o.o. [30 min]**

**MODEL FOR PROVIDING PASSENGER ROLLING STOCK FOR  
OPERATIONS ON THE NETWORK EXPANDED WITH NEW LINES (“Y”)**

**Wojciech Puncewicz**  
Centralny Port Komunikacyjny Sp. z o.o.  
Senior Project Manager / Biuro Strategii i Analiz Programu

**11:15 – 11:30**

**Presentation Railway Research Institute [15 min]**

**COMPATIBILITY OF THE HSR ROLLING STOCK WITH  
INFRASTRUCTURE DEFINED BY CPK RAILWAY STANDARDS**

**Piotr Chyliński**  
Railway Research Institute  
Rolling Stock Testing Laboratory  
Expert

**Andrzej Zbieć**  
Railway Research Institute  
Rolling Stock Testing Laboratory  
Expert



11:30 – 11:45	Presentation PESA Bydgoszcz SA	[15 min]
	// presentation title in progress //	
	<b>Bartosz Antkowiak</b> PESA Bydgoszcz SA Director of Architecture, Systems and Control Department	
11:45 – 12:00	Presentation Hitachi Europe Ltd	[15 min]
	HITACHI'S GLOBAL EXPERIENCE IN HSR AREA	
	<b>Paweł Seluk</b> Hitachi Europe Ltd. Head of Mobility and Rail Solutions	
12:00 – 12:15	Presentation ALSTOM	[15 min]
	10 YEARS OF PENDOLINO IN POLAND AND THE DEVELOPMENT OF HS PRODUCTS IN THE WORLD	
	<b>Jarosław Zych</b> ALSTOM High Speed Railway Expert at ALSTOM	
12:15 – 12:30	Presentation NEWAG GROUP	[15 min]
	NEWAG H250+ CONCEPT OF THE POLISH HIGH SPEED TRAIN	
	<b>Maciej Górowski</b> GRUPA NEWAG	
	<b>Łukasz Nowak</b> GRUPA NEWAG	
12:30 – 12:45	Presentation HADATAP Sp. z o.o.	[15 min]
	RFID TECHNOLOGY USE IN THE HIGH SPEED RAILWAY SYSTEM	
	<b>dr inż. Leszek Winsztal</b> HADATAP Sp. z o.o. RFID Project Manager	
<b>LUNCH / NETWORKING</b> <b>12:45 – 13:30</b>		<b>[45 min]</b>

**TECHNICAL TRIP ...**  
**13:30 – ... till the last participant ... :-)**

#### **TECHNICAL TRIP**

under substantive patronate of  
KELLER POLSKA Sp. z o.o.

*(the technical tour starts at the main lobby of the Andels Hotel)*

**HSR PL 2024 ŁÓDŹ**  
**END OF THE CONFERENCE**