

Intelligent Lighting Control

Vehicle Lighting

Presentation

Kaj Tammela

Sales Director

Teknoware USA

Milford, Connecticut

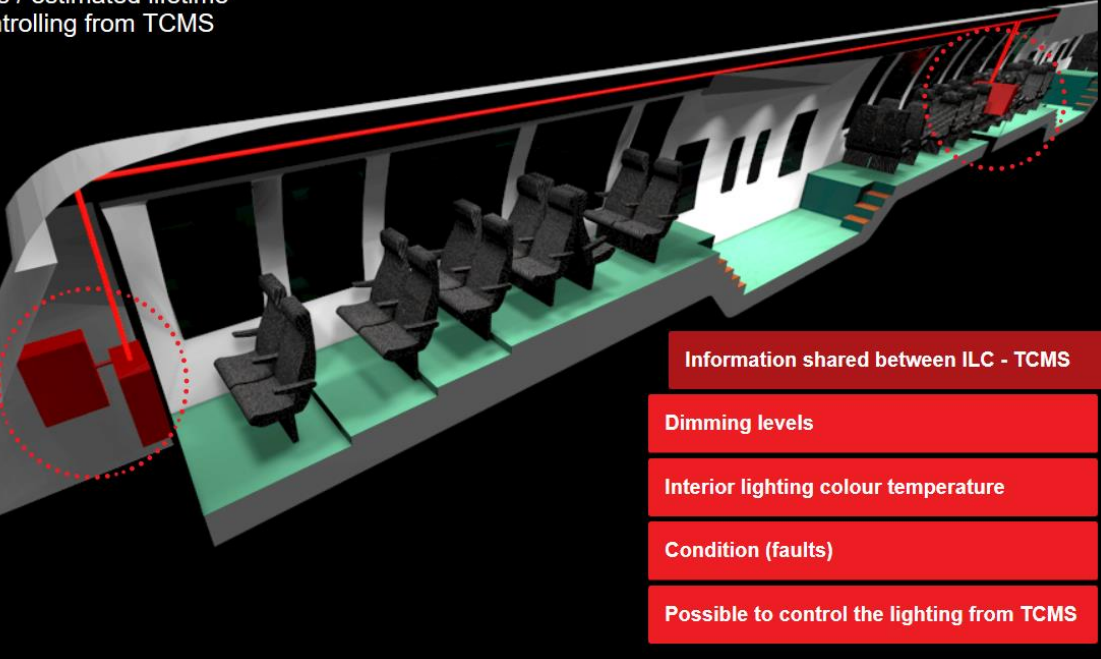
Intelligent Lighting Control



Information

Information shared between Intelligent Light Controller (ILC) & Train Control and Management System (TCMS):

- Current dimming level on each car / area
- Condition of the lighting
- Usage hours / estimated lifetime
- Lighting controlling from TCMS



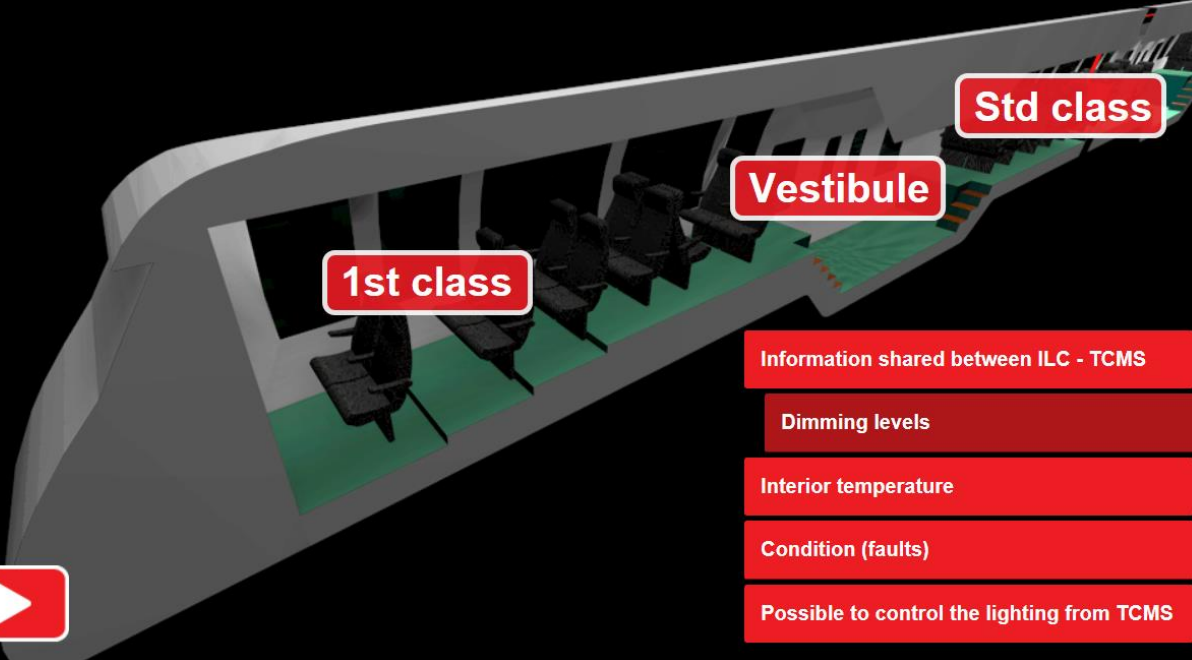
Information shared between ILC - TCMS

- Dimming levels
- Interior lighting colour temperature
- Condition (faults)
- Possible to control the lighting from TCMS

Dimming

Dimming levels:

- Lighting level information from the sensors via CAN-bus to the ILC
- Possible to set different dimming levels



1st class

Vestibule

Std class

Information shared between ILC - TCMS

Dimming levels

Interior temperature

Condition (faults)

Possible to control the lighting from TCMS

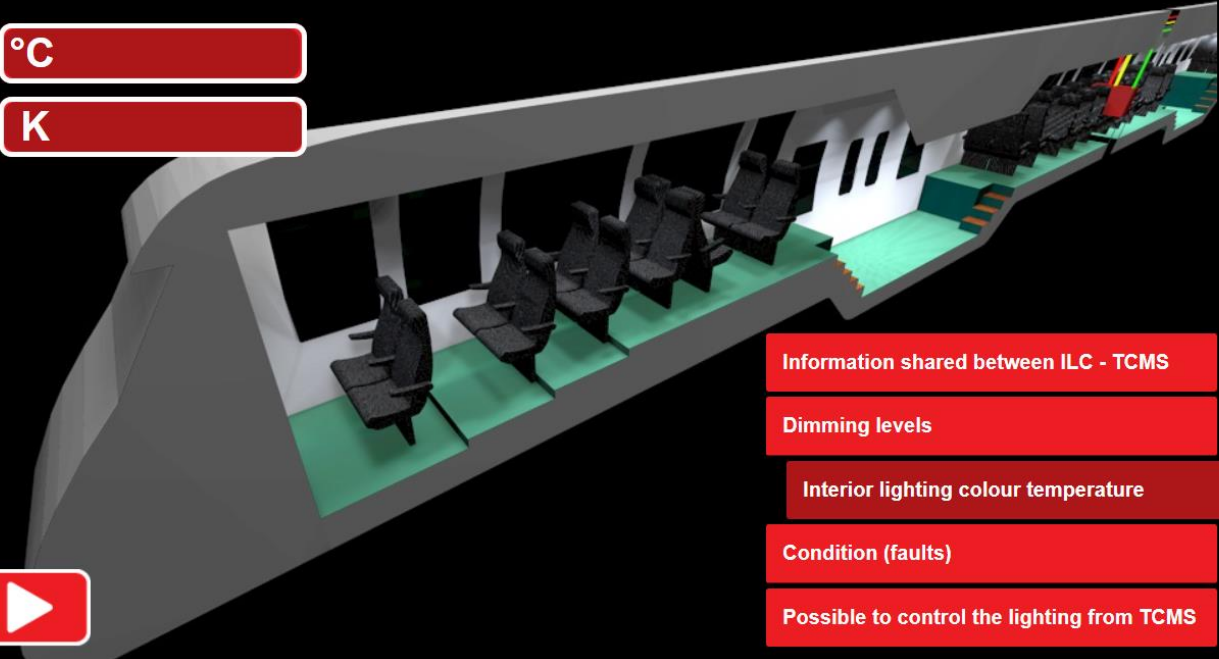
Active Dimming



Color Temperature

Interior Lighting colour temperature

- Possible to change the interior lighting colour temperature based on the external temperatures. In hot summer day lighting set to cool white and cold winter day, lighting set to warm white.



°C

K

Information shared between ILC - TCMS

Dimming levels

Interior lighting colour temperature

Condition (faults)

Possible to control the lighting from TCMS

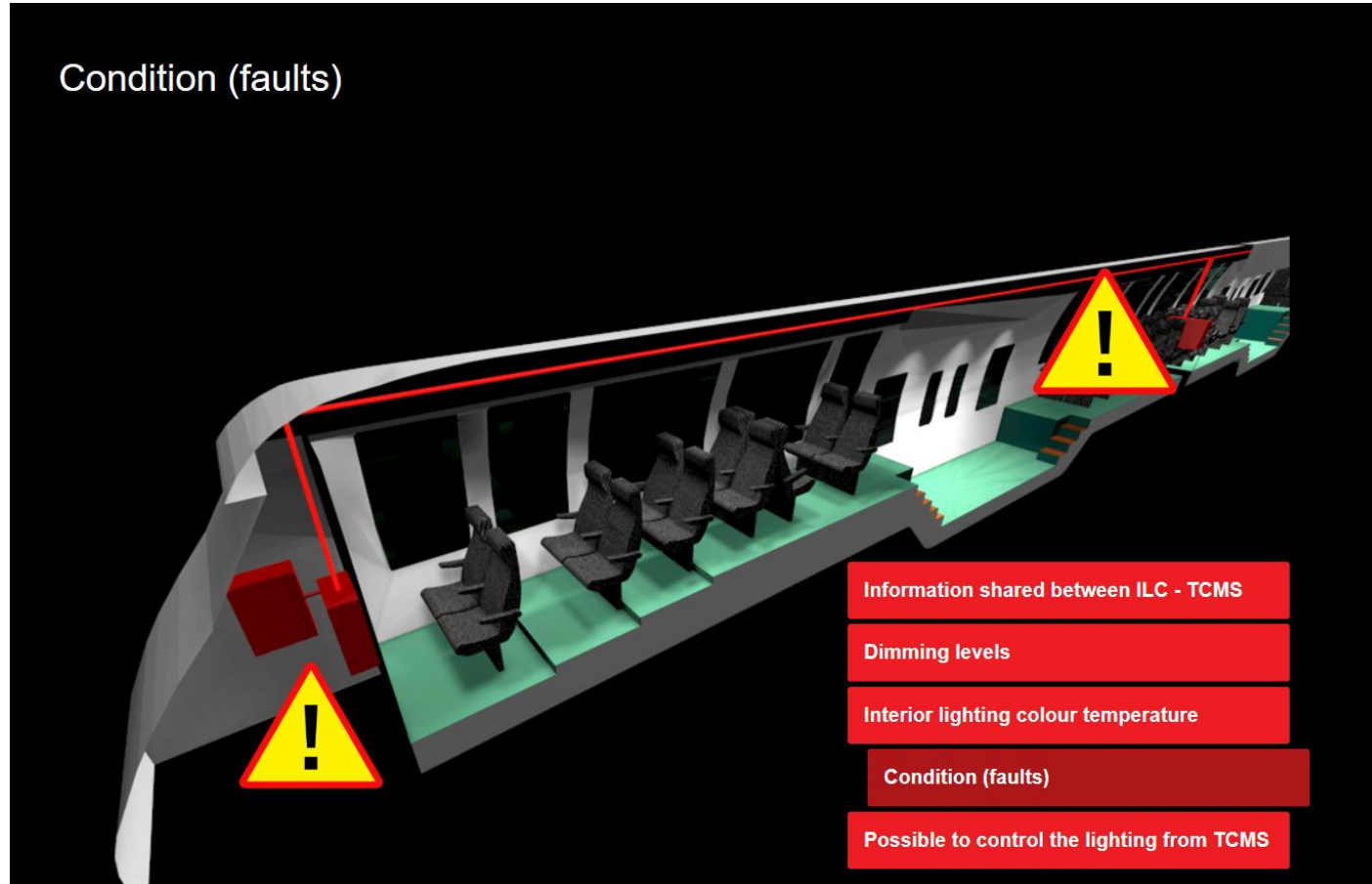
▶

The image shows a 3D cutaway of a train interior. On the left, there are two red rectangular boxes with white text: the top one contains '°C' and the bottom one contains 'K'. Below these is a red play button icon. On the right side of the train cutaway, there are five stacked red rectangular boxes with white text, listing system capabilities: 'Information shared between ILC - TCMS', 'Dimming levels', 'Interior lighting colour temperature', 'Condition (faults)', and 'Possible to control the lighting from TCMS'. The train interior is shown with rows of seats and a green floor.

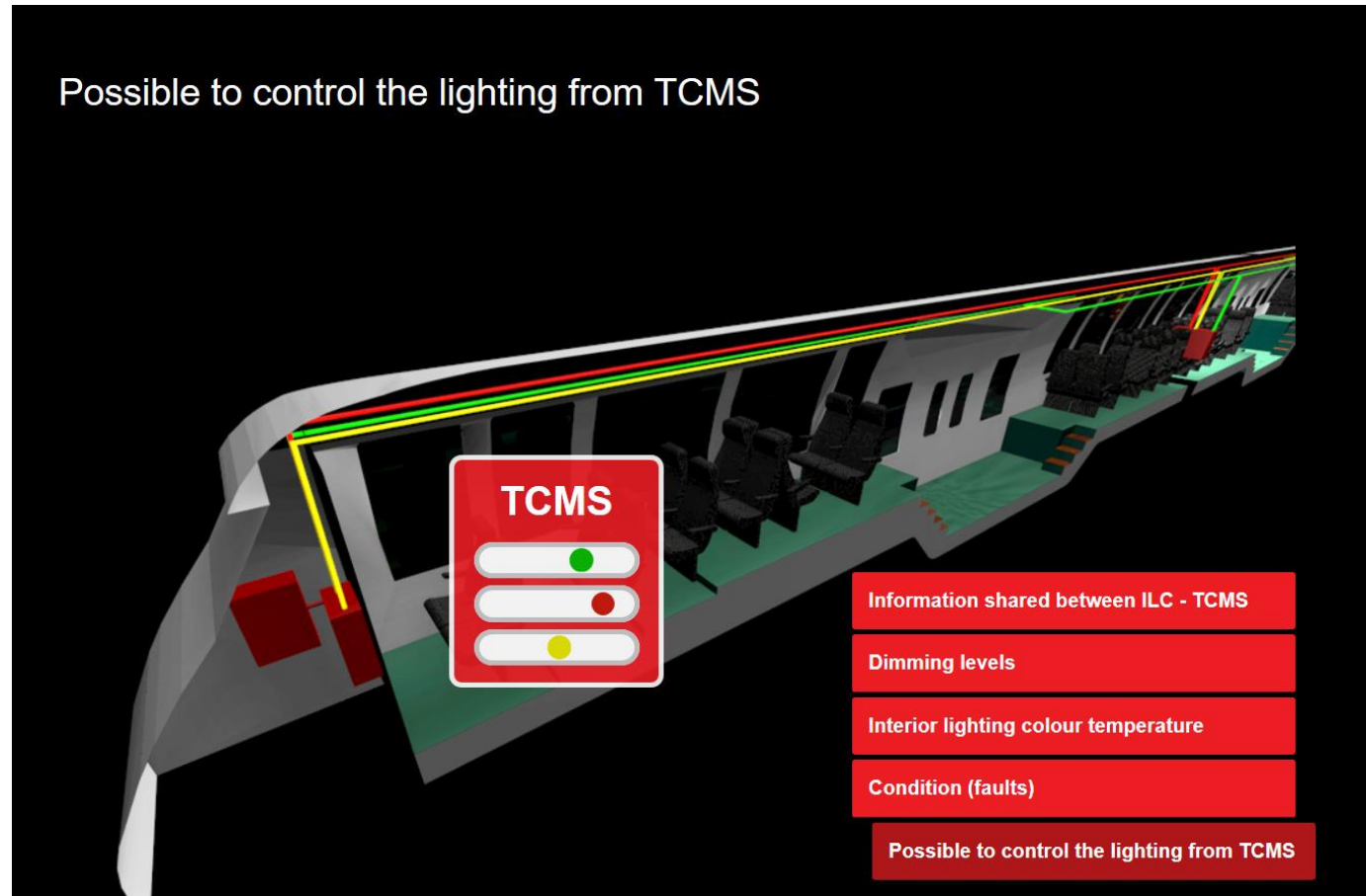
Color Temperature



Conditions (fault)



TCMS Lighting Control



Ambient Lighting (RGB)



