

The impact of air transport: An environmental perspective

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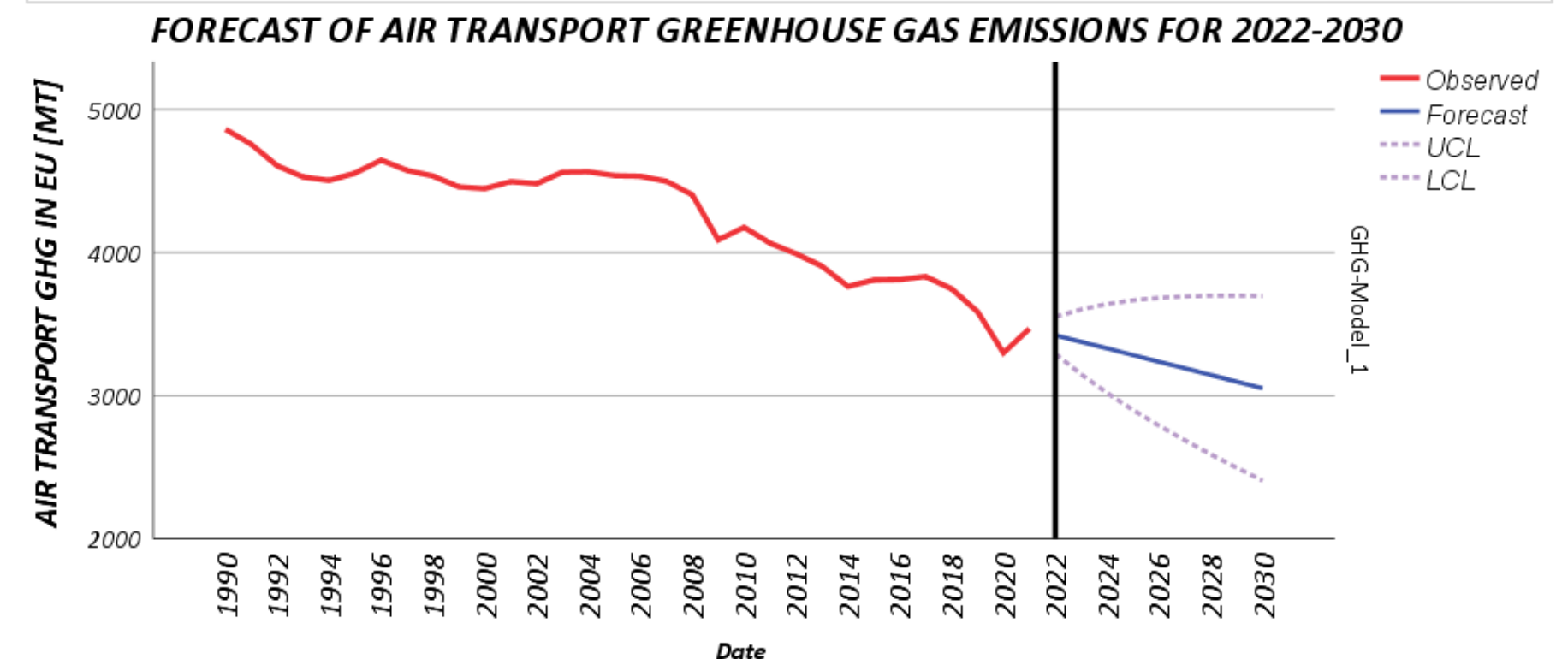
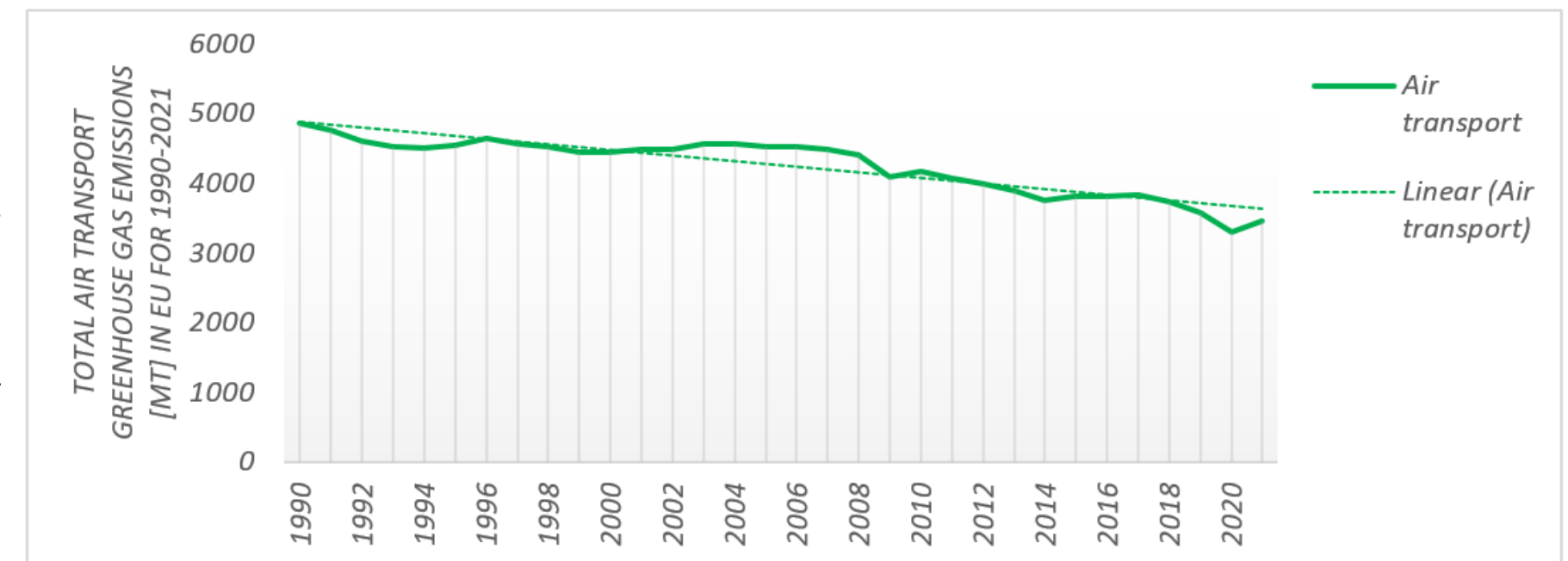
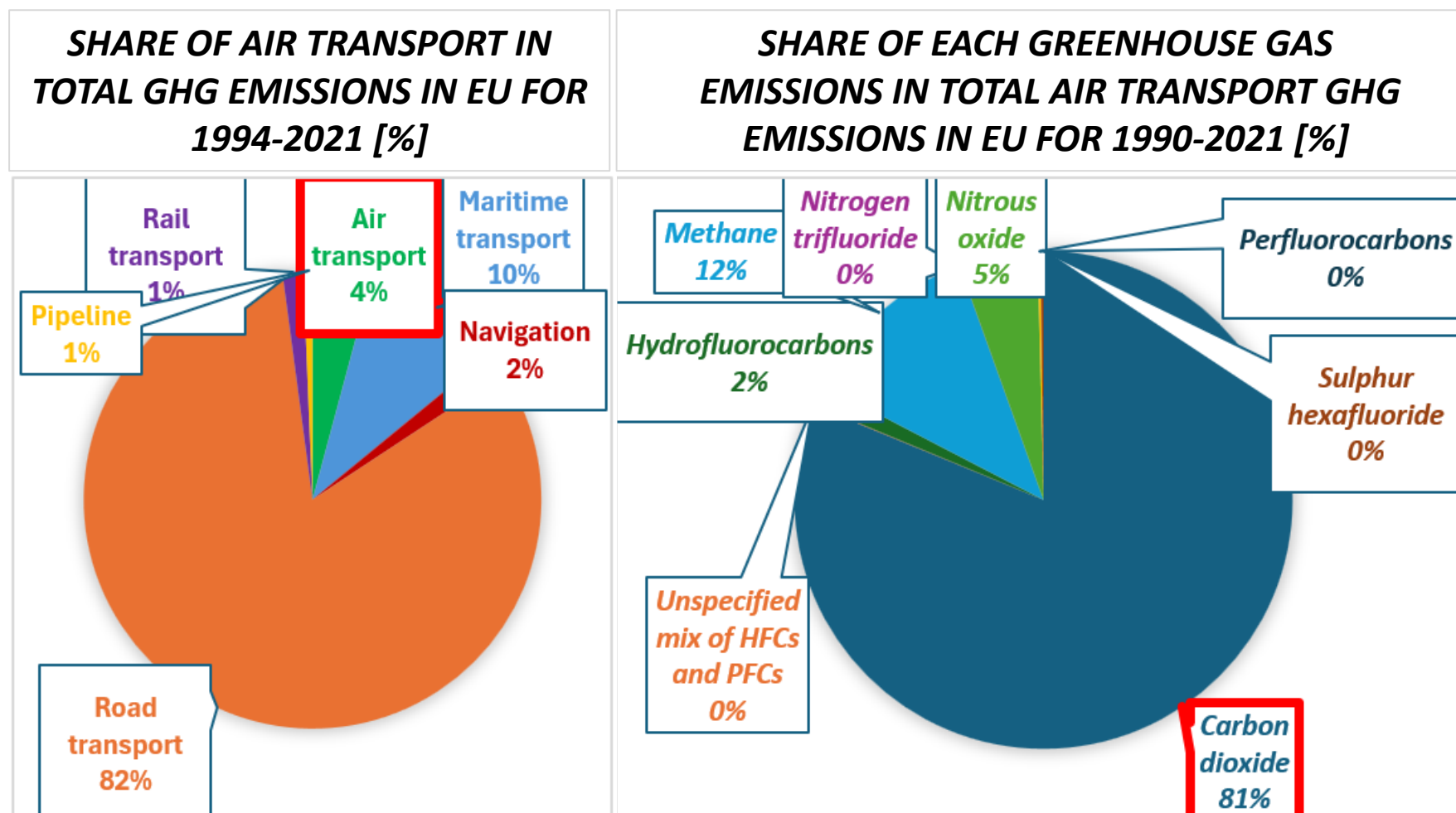
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Abstract. Air transport provides the movement of passengers and cargo. It generates approximately 13 million jobs, carries around 1% of world trade in volume, and represents over 35% of world trade in value. Advantages of air transport include speed and efficiency, global connectivity, safety and reliability, covering long-distances, delivering time-sensitive goods, etc. On the other hand, air transport is very expensive, weather-dependent, with limited accessibility, and negative impacts on the environment. Aircraft use fossil fuels which release emissions of carbon dioxide, nitrogen oxides, sulfur oxides, and other particulates into the atmosphere, causing significant air pollution. The European transport sector is responsible for about 25% of total carbon dioxide emissions, 4% of which come from air transport. The European Green Deal is a package of policy initiatives to reduce greenhouse gas emissions from all sectors, including air transport. The paper analyses the environmental impact of the air transport sector in the European Union using the available data and IBM statistics software. The results present the environmental impact of the air transport sector for the period 1990-2021 in the European Union and the projected environmental impact in the future.



Conclusions. As per conducted analysis, based on available OECD data, and by using IBM SPSS ARIMA modeling, the environmental impact of air transport sector in the EU for the period 1990-2021, is presented. Air transport greenhouse gas emissions in EU show constant decrease in observed period, as well as in future period 2022-2030. More efforts should be focused on reducing carbon dioxide emissions, as per analysis results. Implementing measures such as eco-friendly and cost-efficient aircraft engines or alternative energy sources can ensure effective environmental protection.