

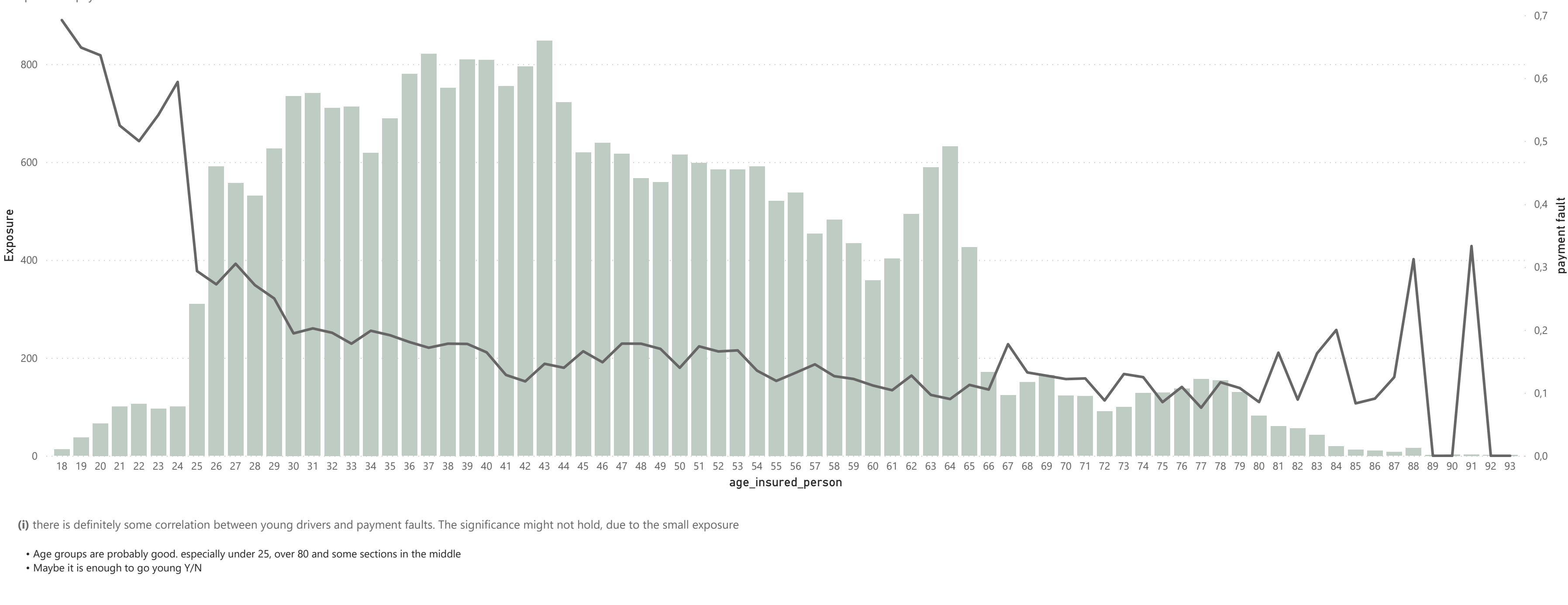
# Quick view the Data

## (I) Quickview on Data

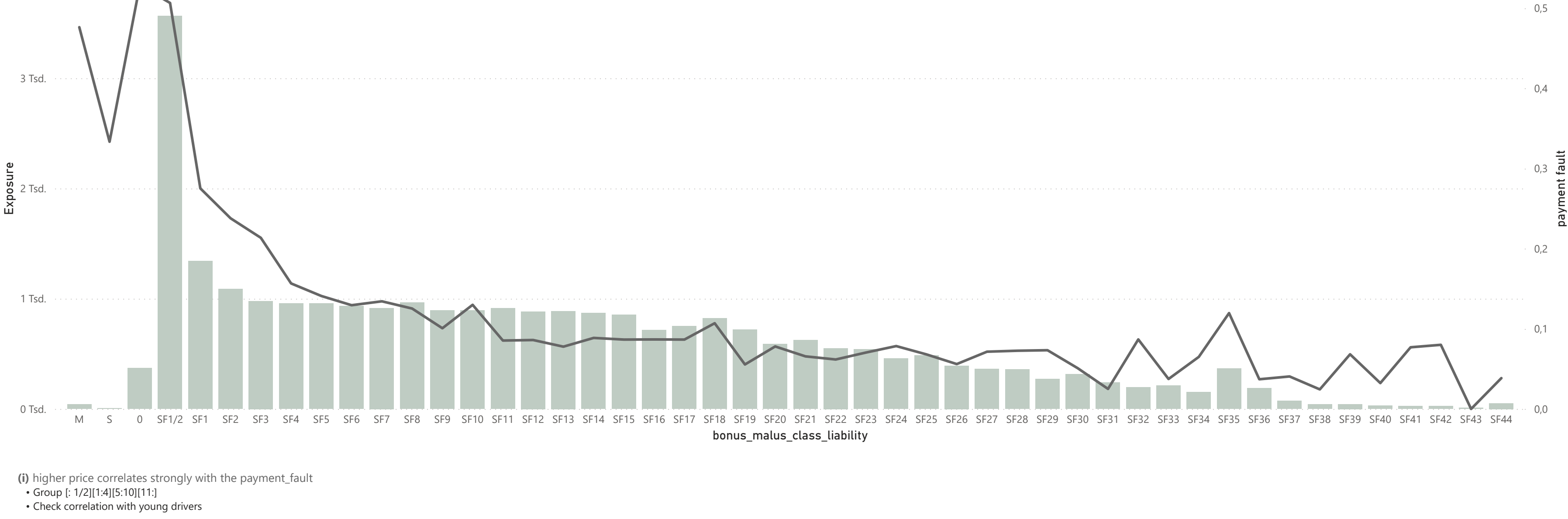
- Get a first idea, which fields might have a an impact on payment faults
- Find areas with weak exposure and prepare binning and grouping values
- Check for interactions between fields

# Preview the data regarding a payment fault model

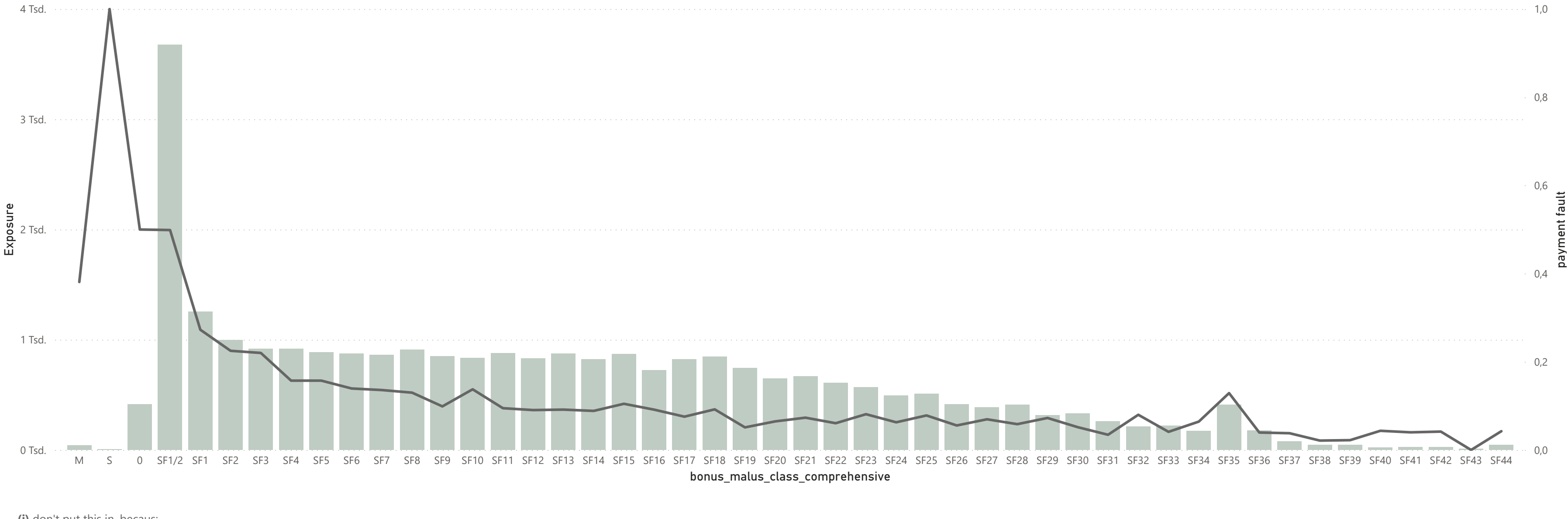
## Age of insured person



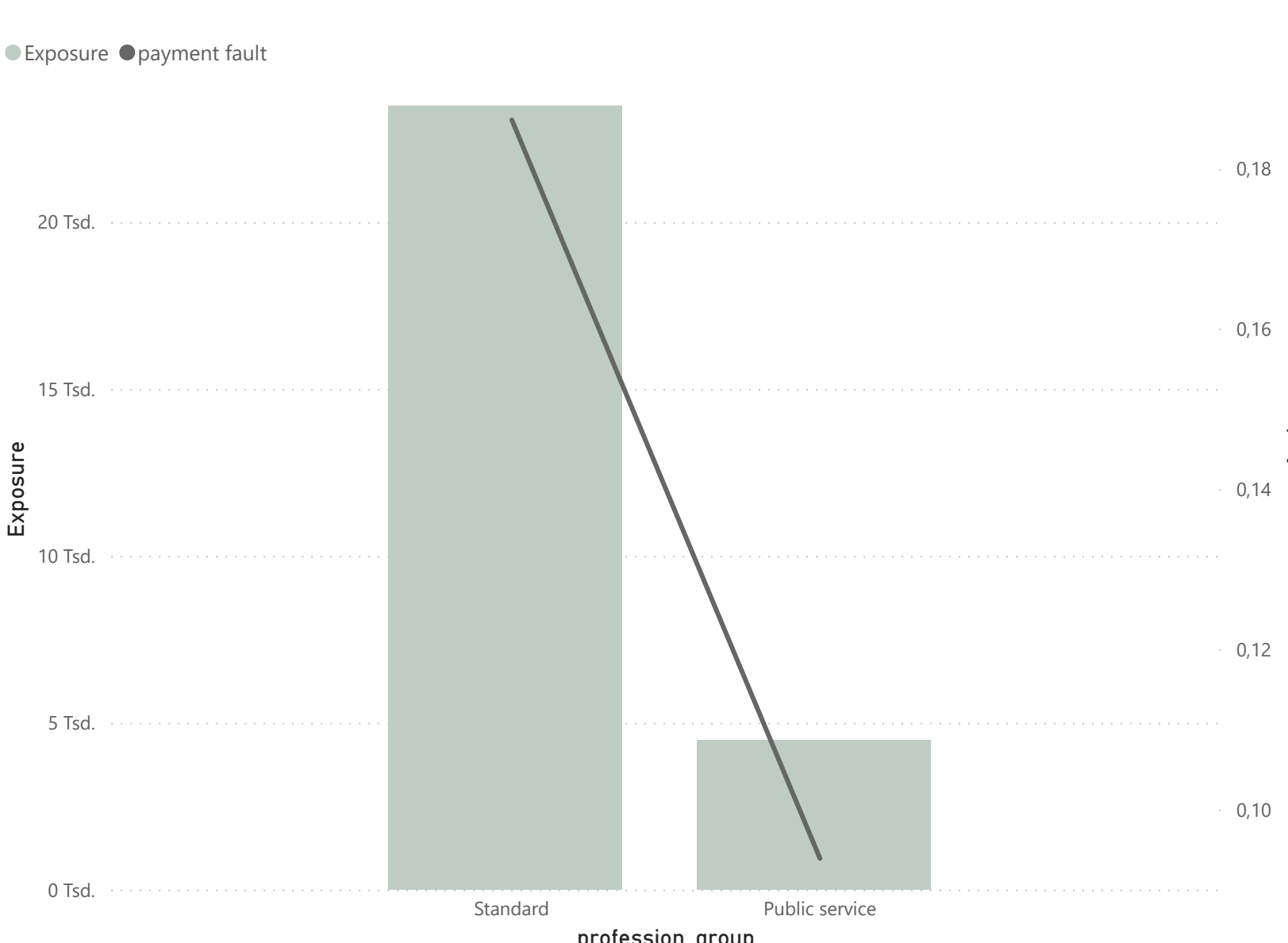
## SF-Class third party liability



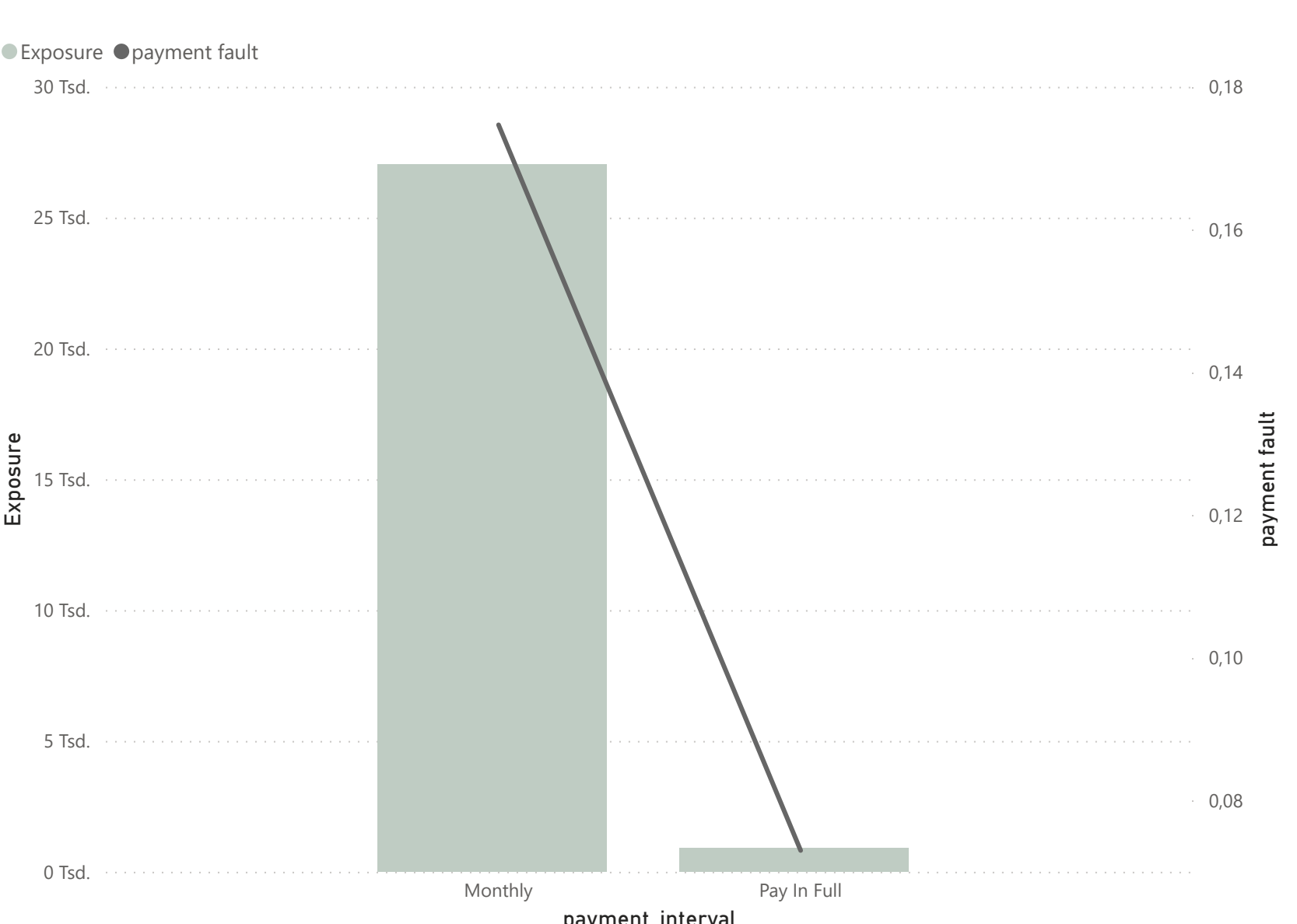
## SF-Class full comprehensive cover



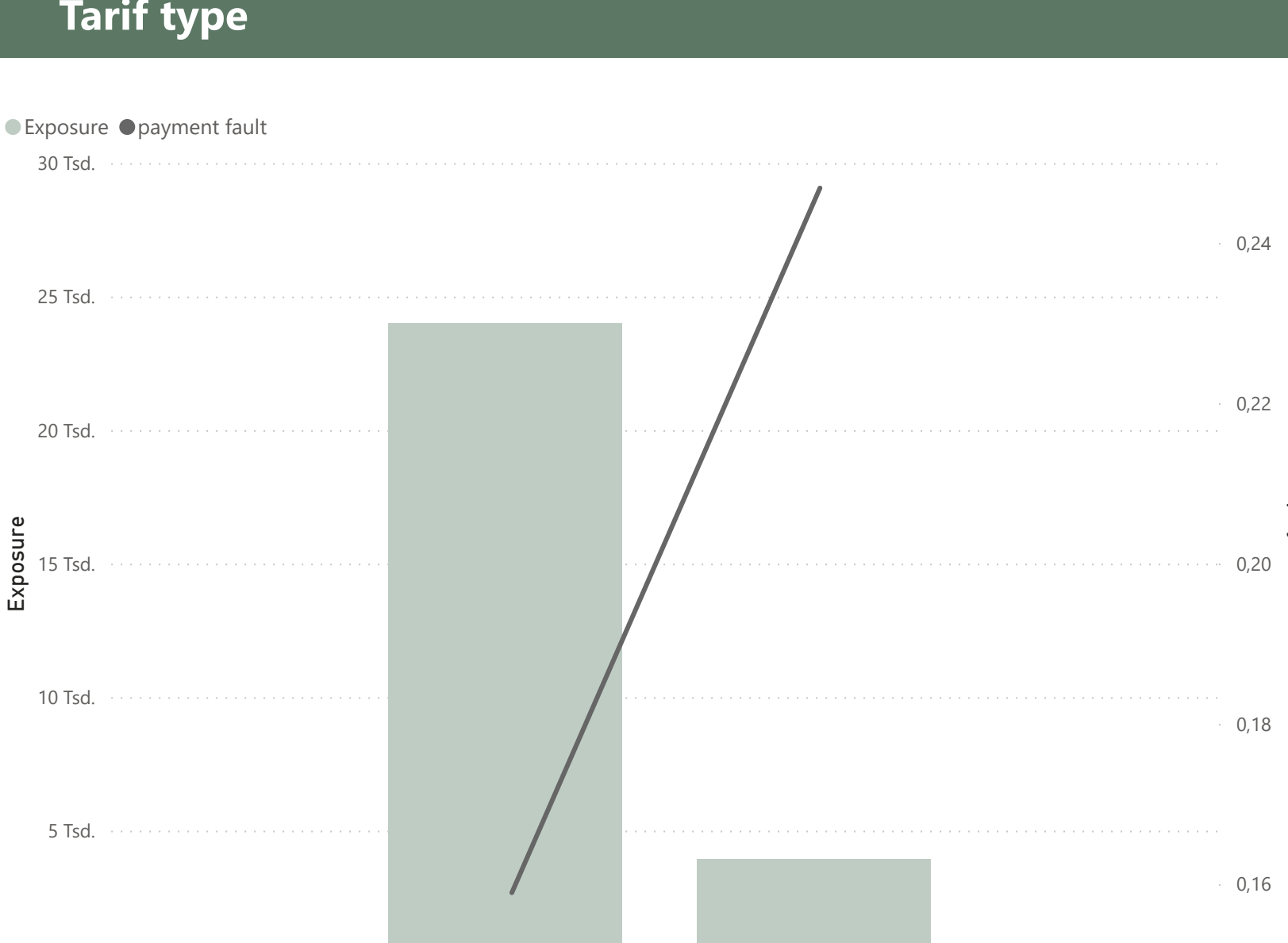
## Profession group



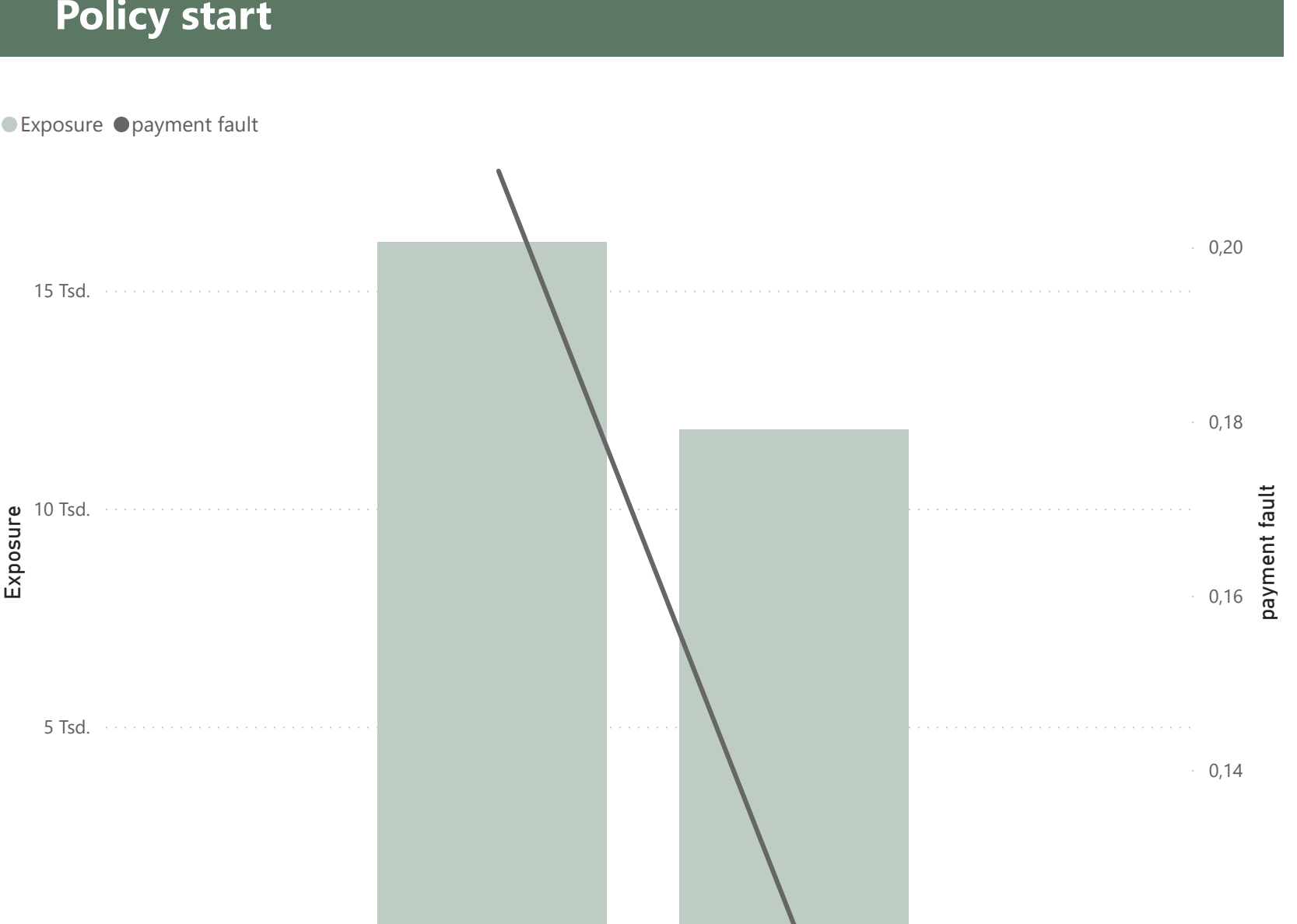
## Payment



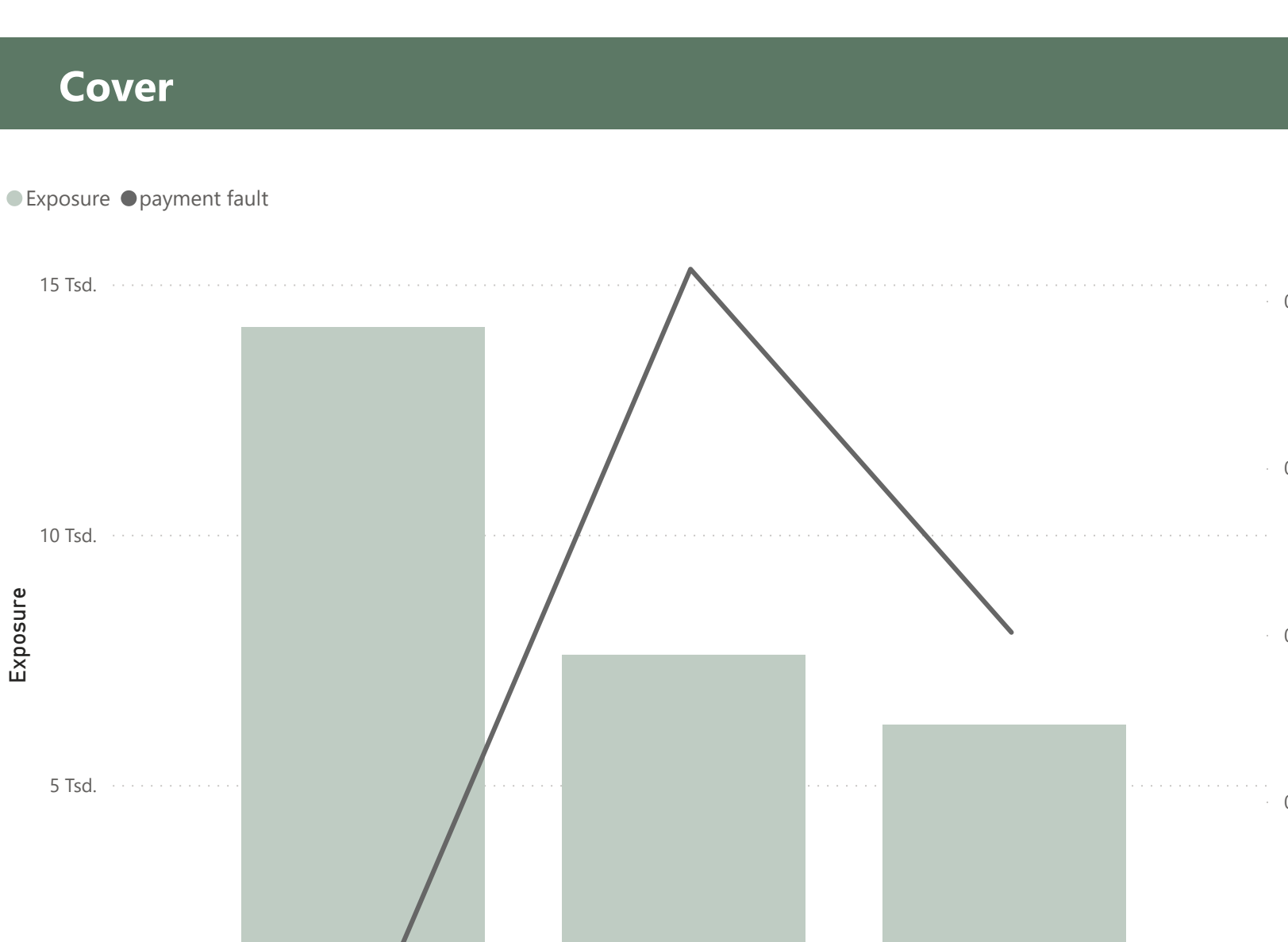
## Tariff type



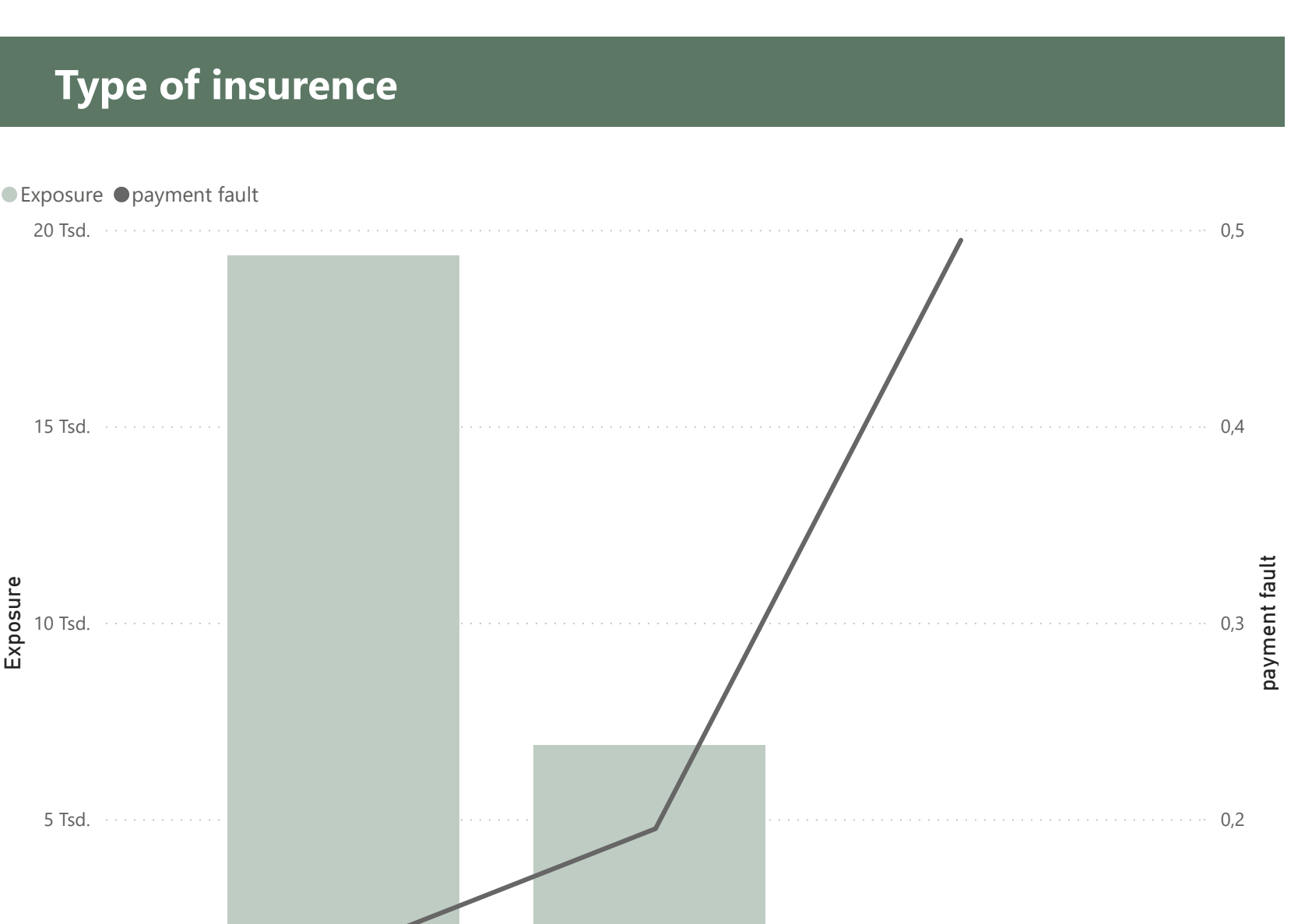
## Policy start



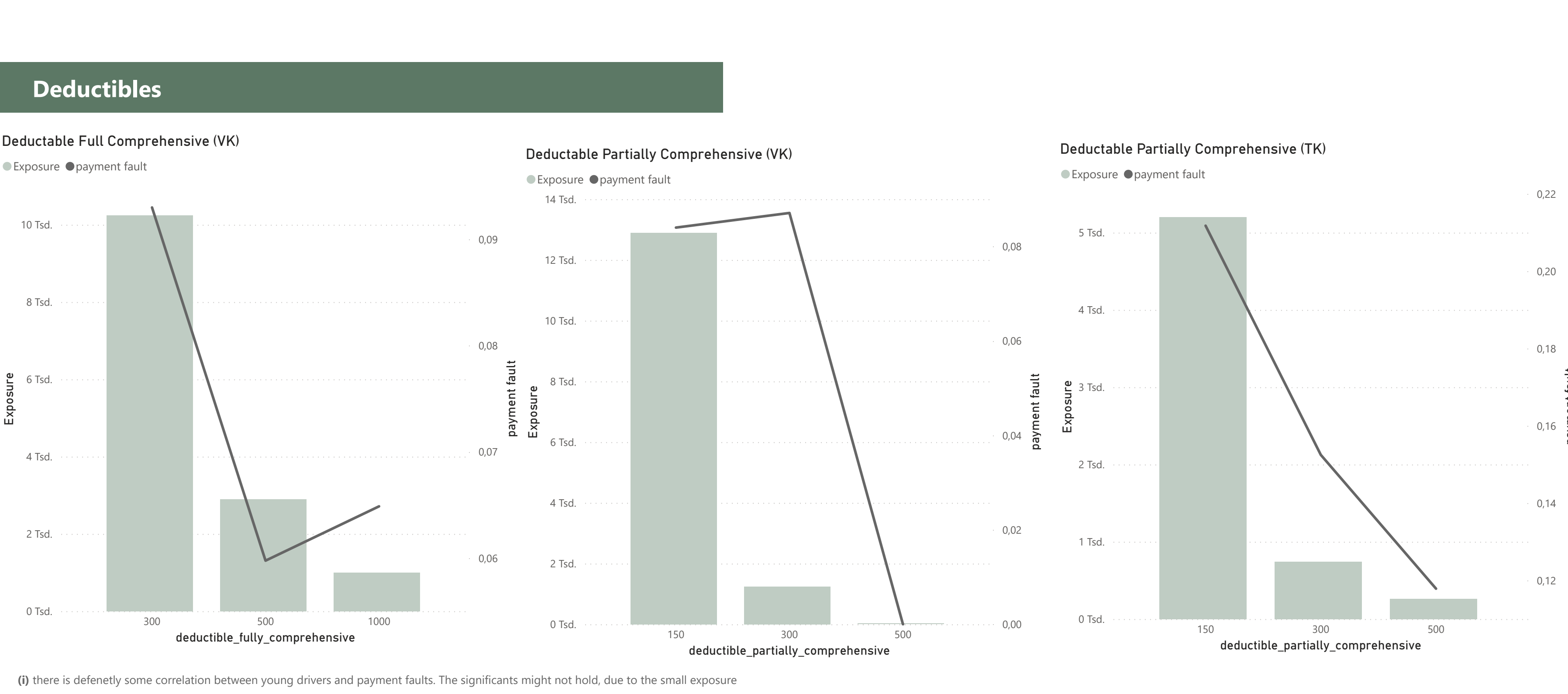
## Cover



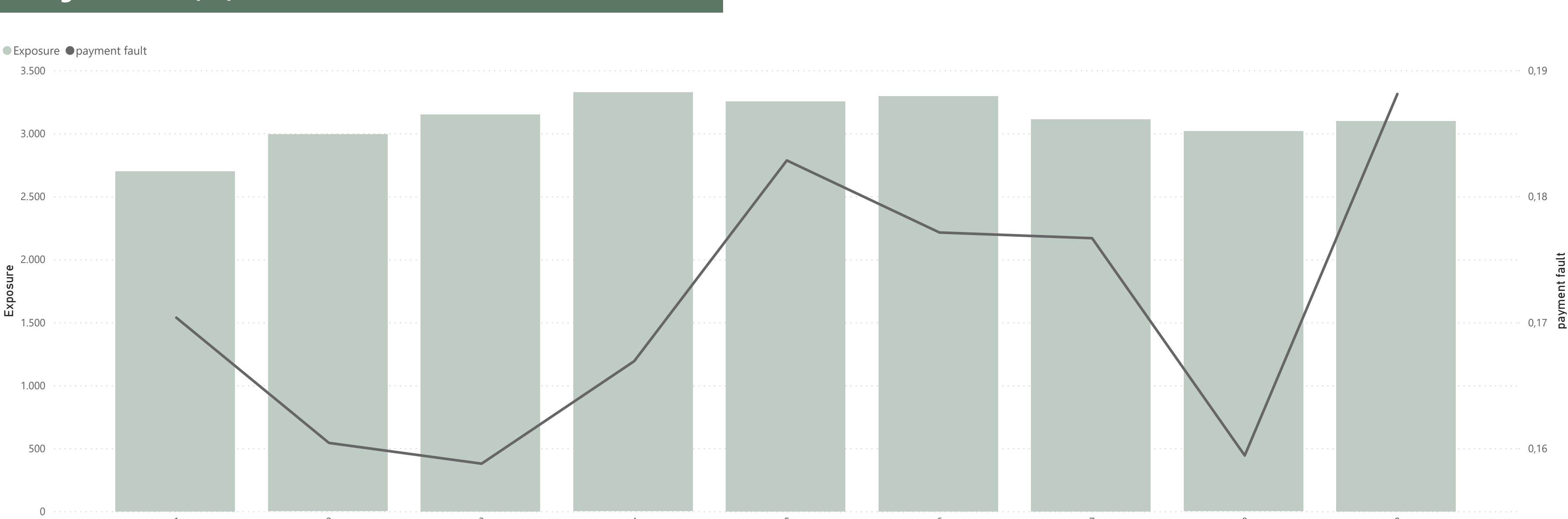
## Type of insurance



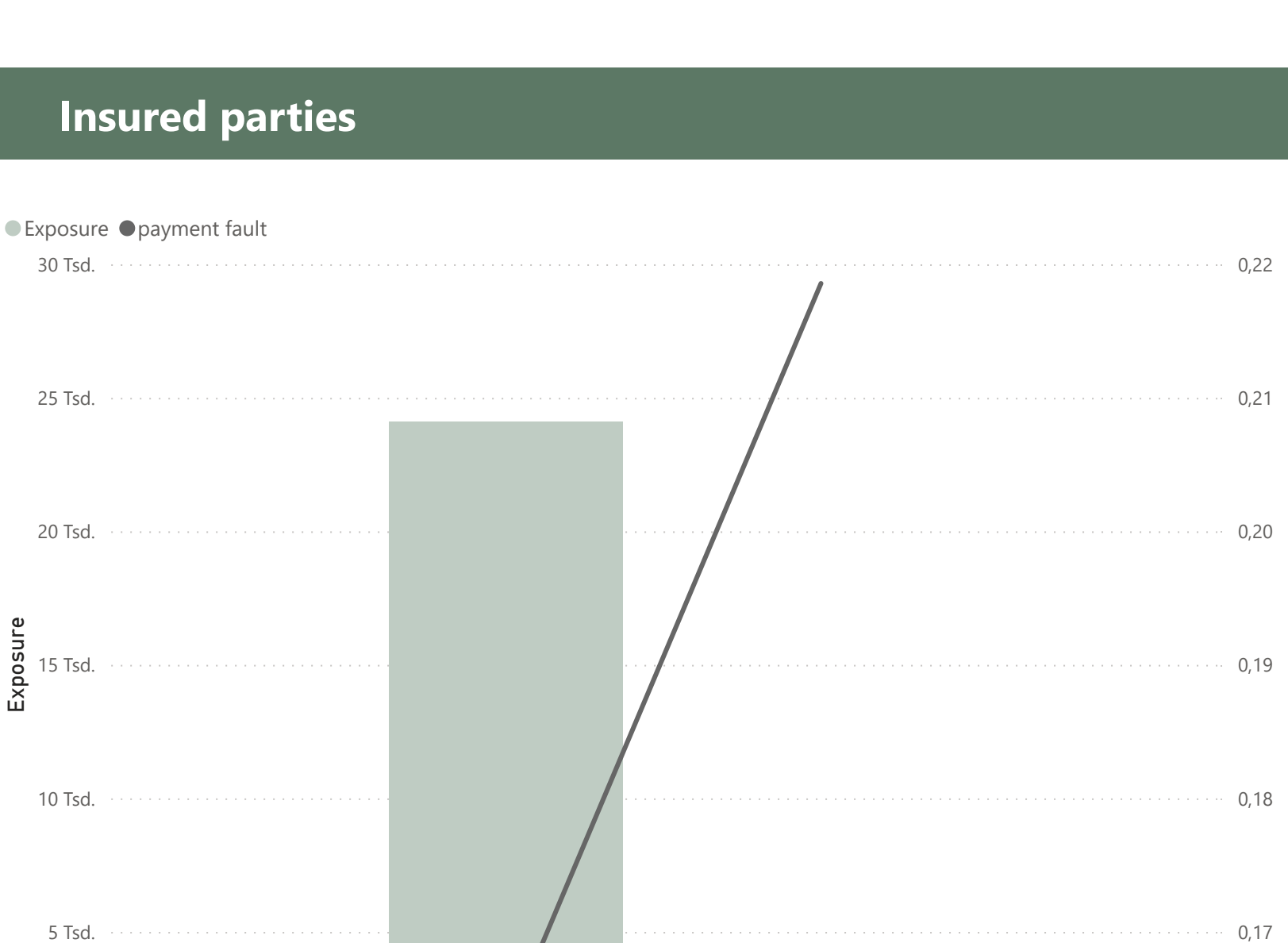
## Deductibles



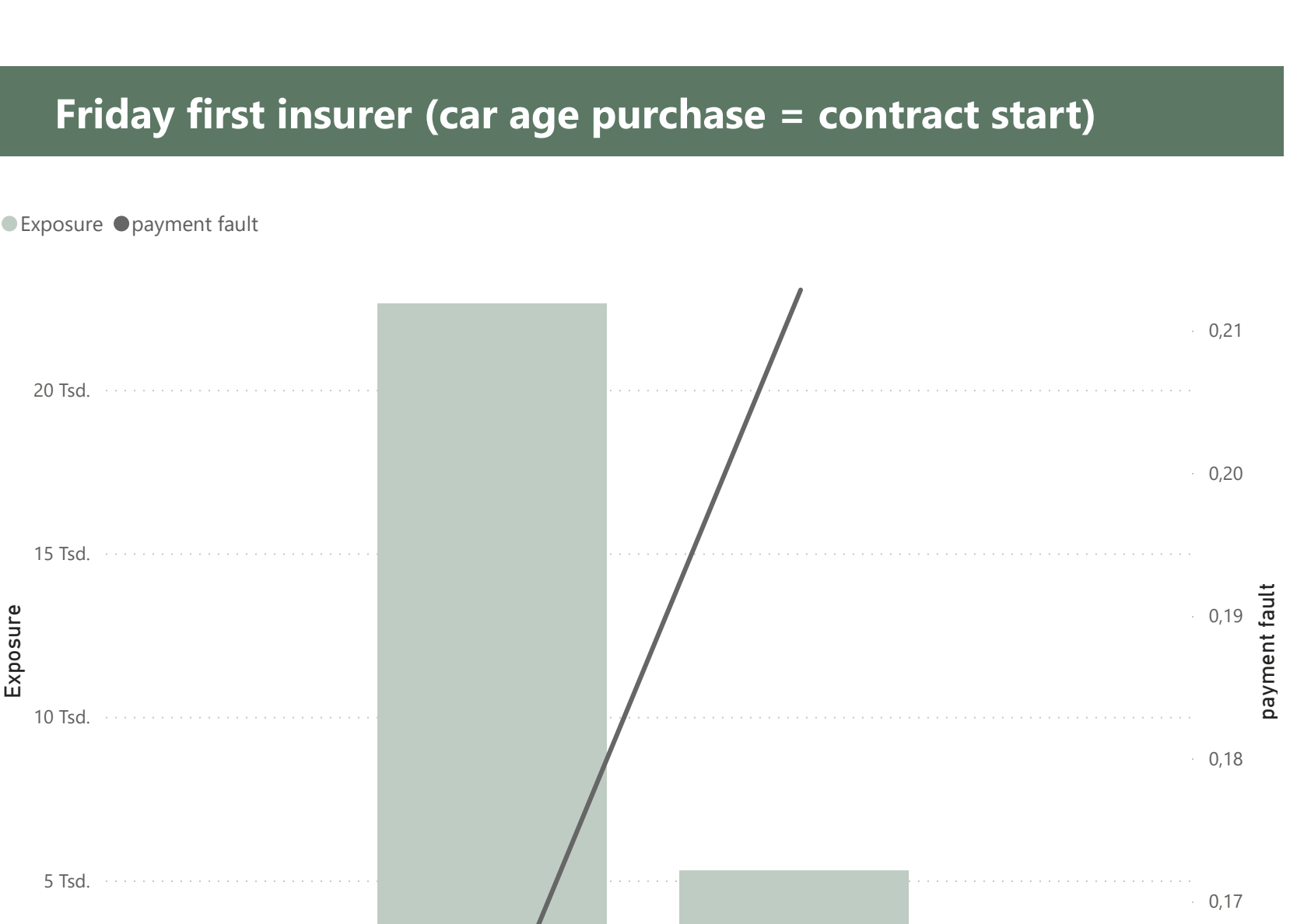
## Regional class (FC)



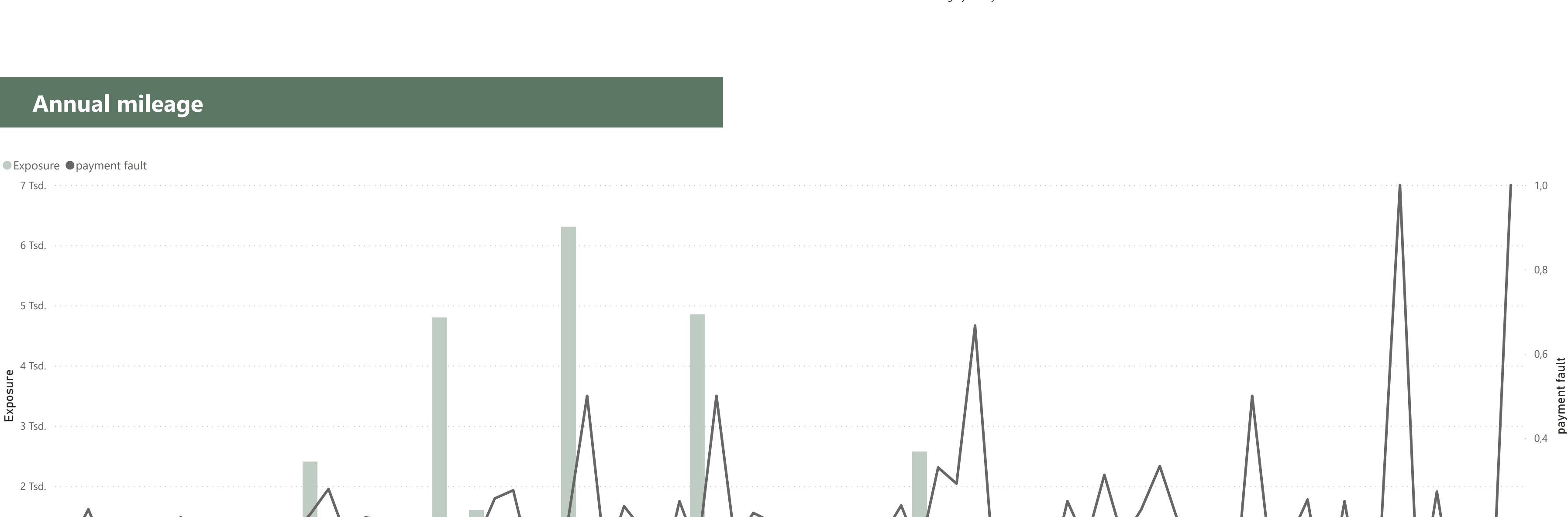
## Insured parties



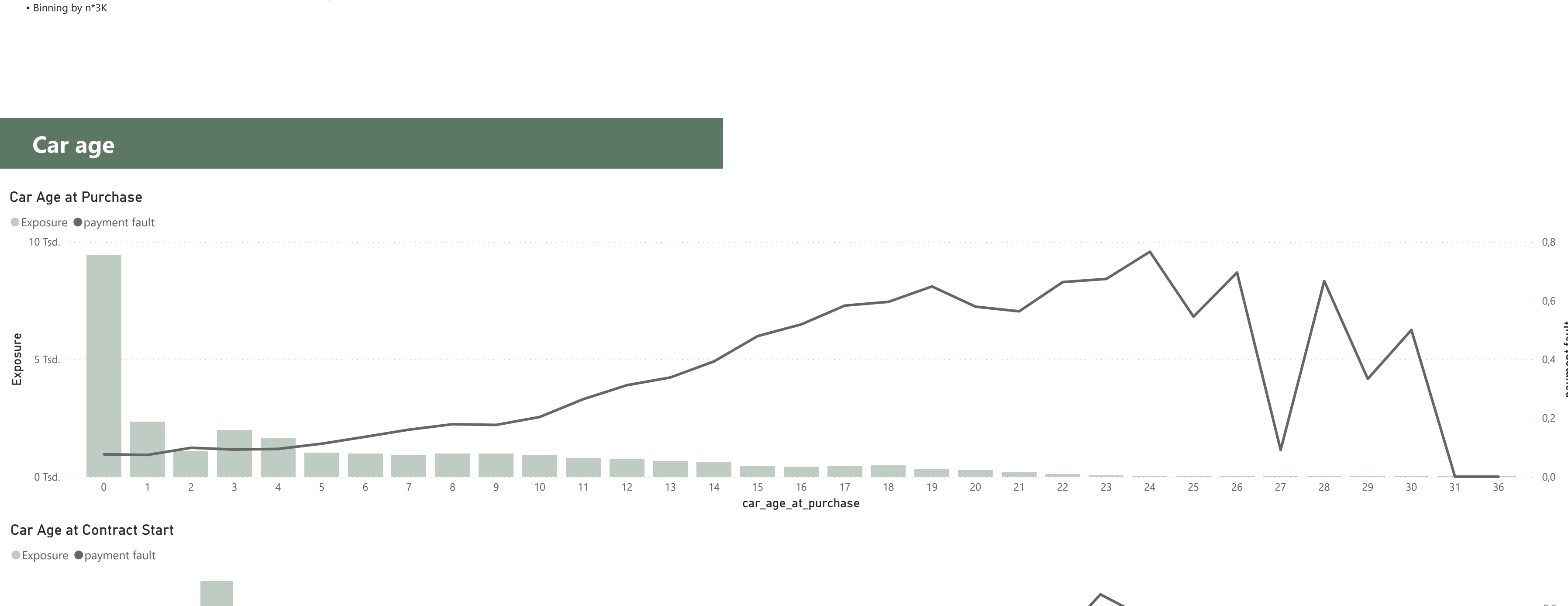
## Friday first insurer (car age purchase = contract start)



## Annual mileage

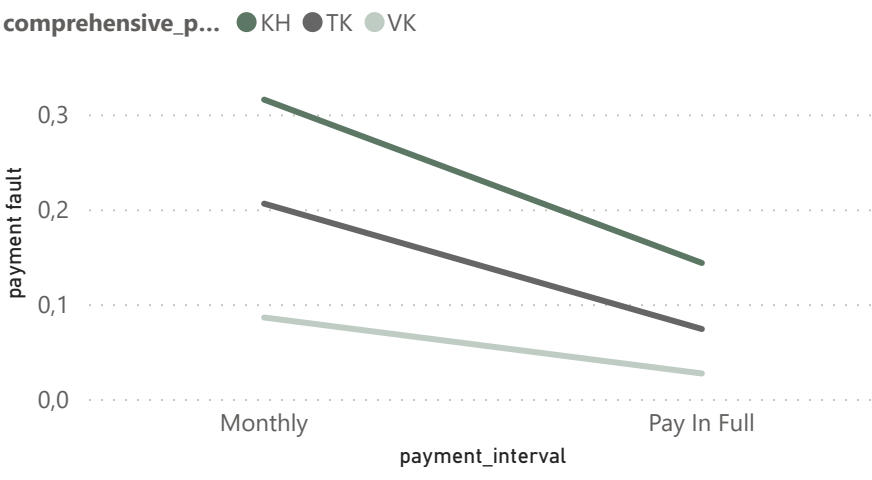
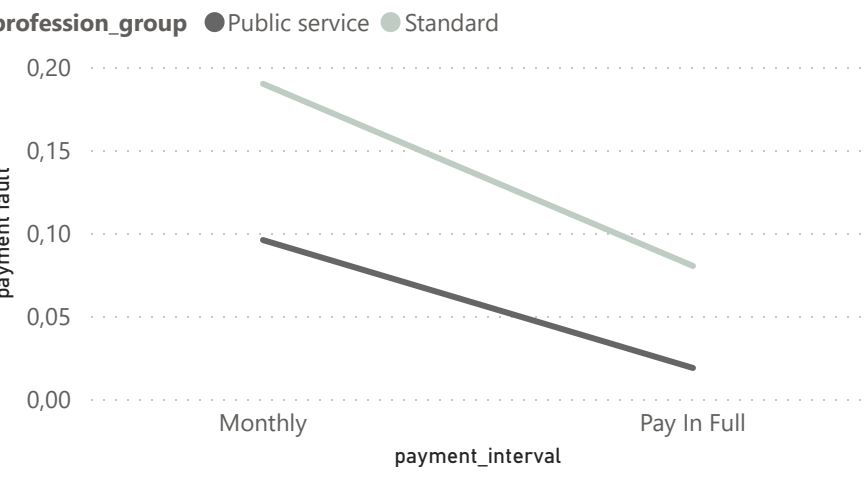
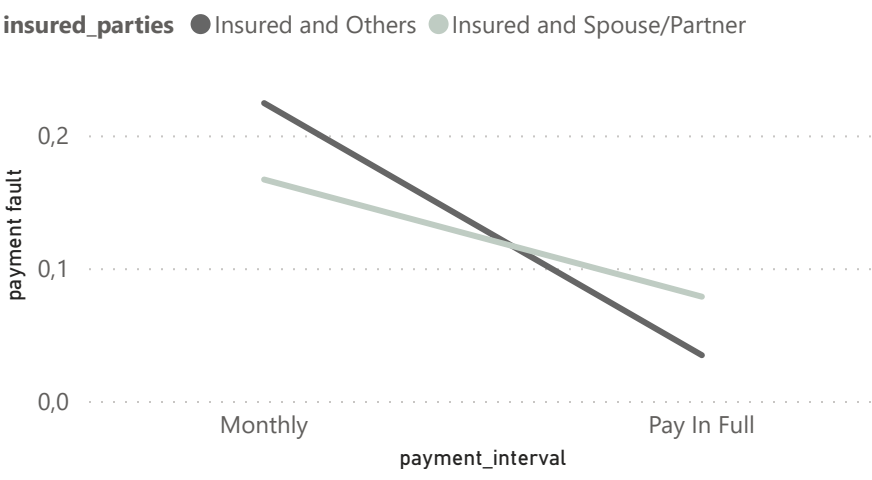
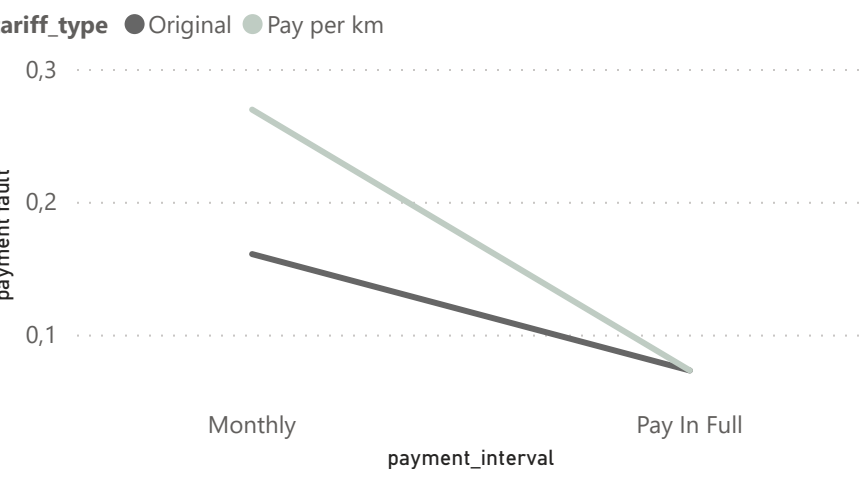


## Car age

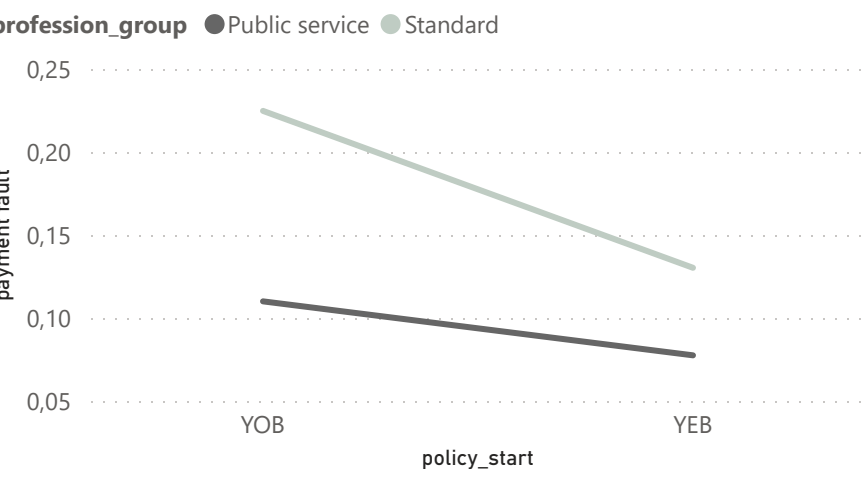


# Test Data for Interactions

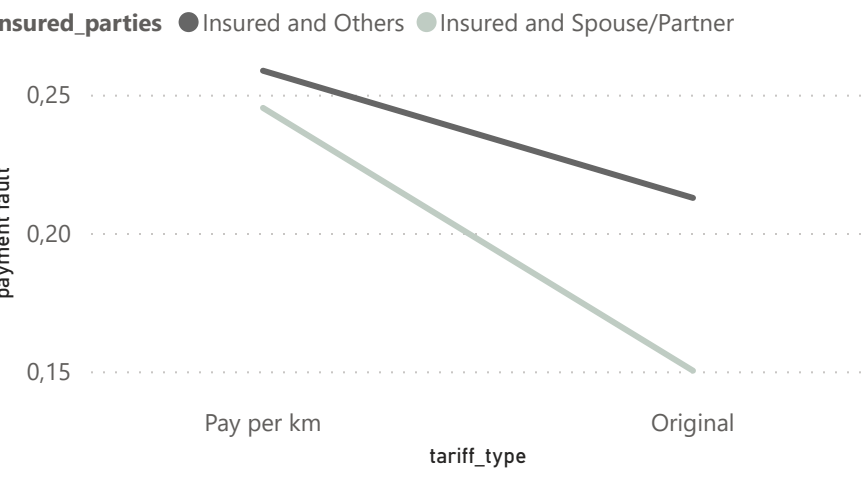
## Possible interactions with Payment type



## Possible interactions with policy start



## Possible interactions with tariff type



# Summary: quick view the Data

## **(I) Pricing:**

As expected, payment faults seem to correlate with a higher price tag. This shows by a high correlation between fields that usually have a greater impact in pricing models.

## **(II) Customer type**

But there is another component, the type of customer. It seems, that the profession, the number of installments as well as the (usually relative expensive) full comprehensive coverage does have a positive impact on payment faults.

This makes sence, because price sensitive customers tend not to buy such a coverage (porbably because the car is not expensive enough as well).

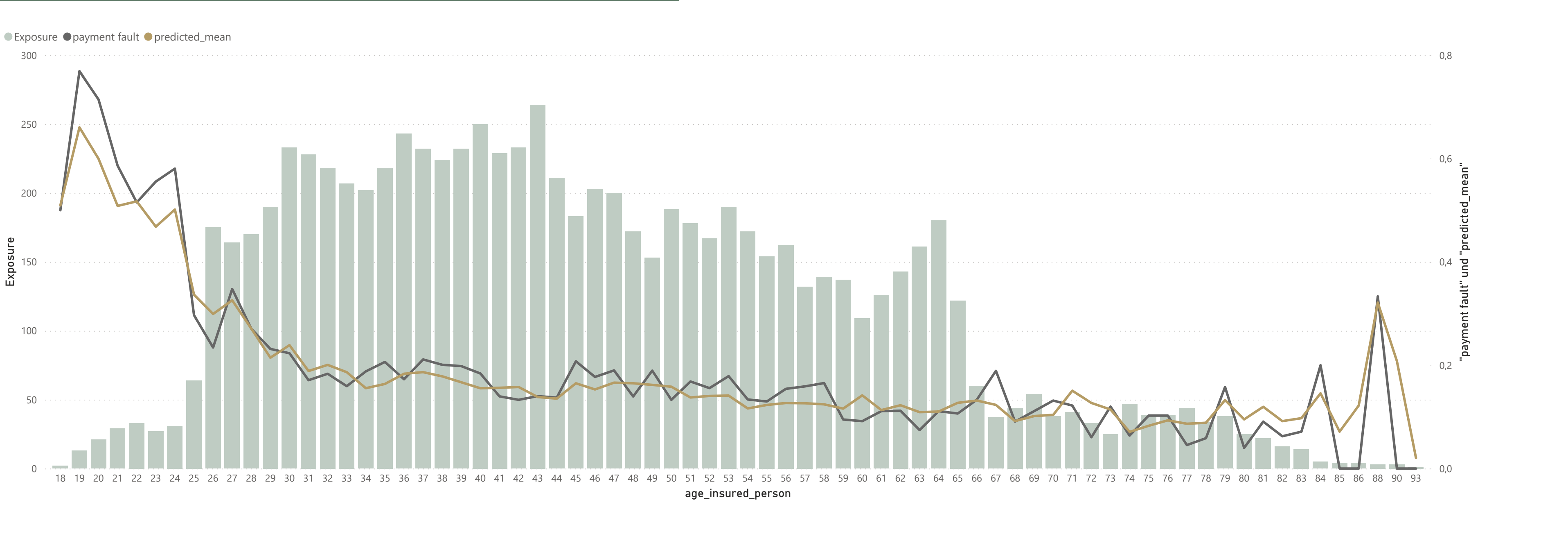
## **Notes:**

the given regional classes are for full comprehensive cover and typically do not affect the pricing of a third liability or partially comprehensive covers. So therefore the effect would be stronger if the regional classes for third liability would have been given (even though they correlate).

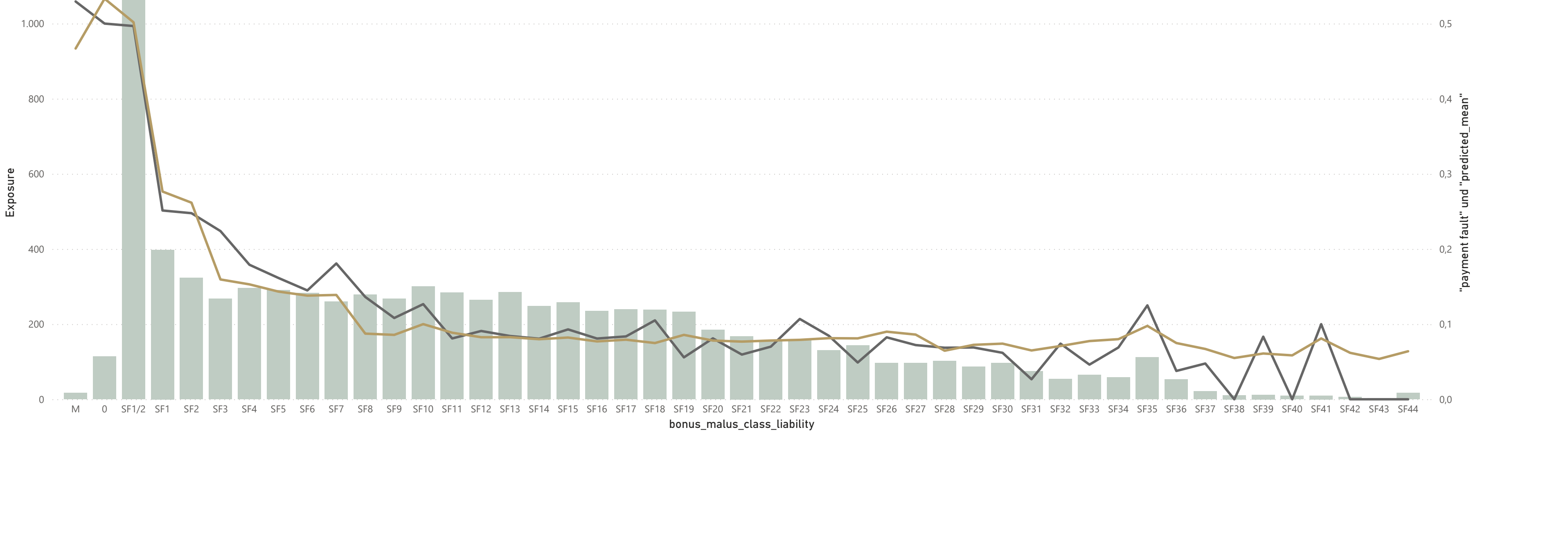


# Evaluating fit on test data only

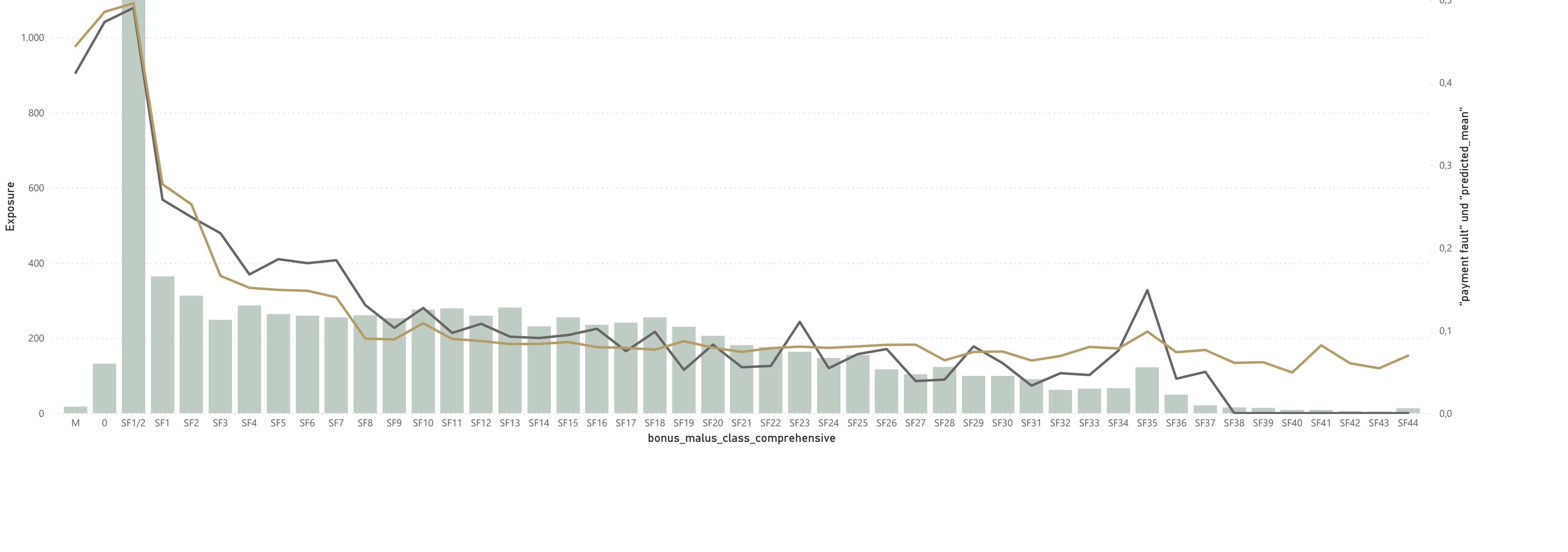
## Age of insured person



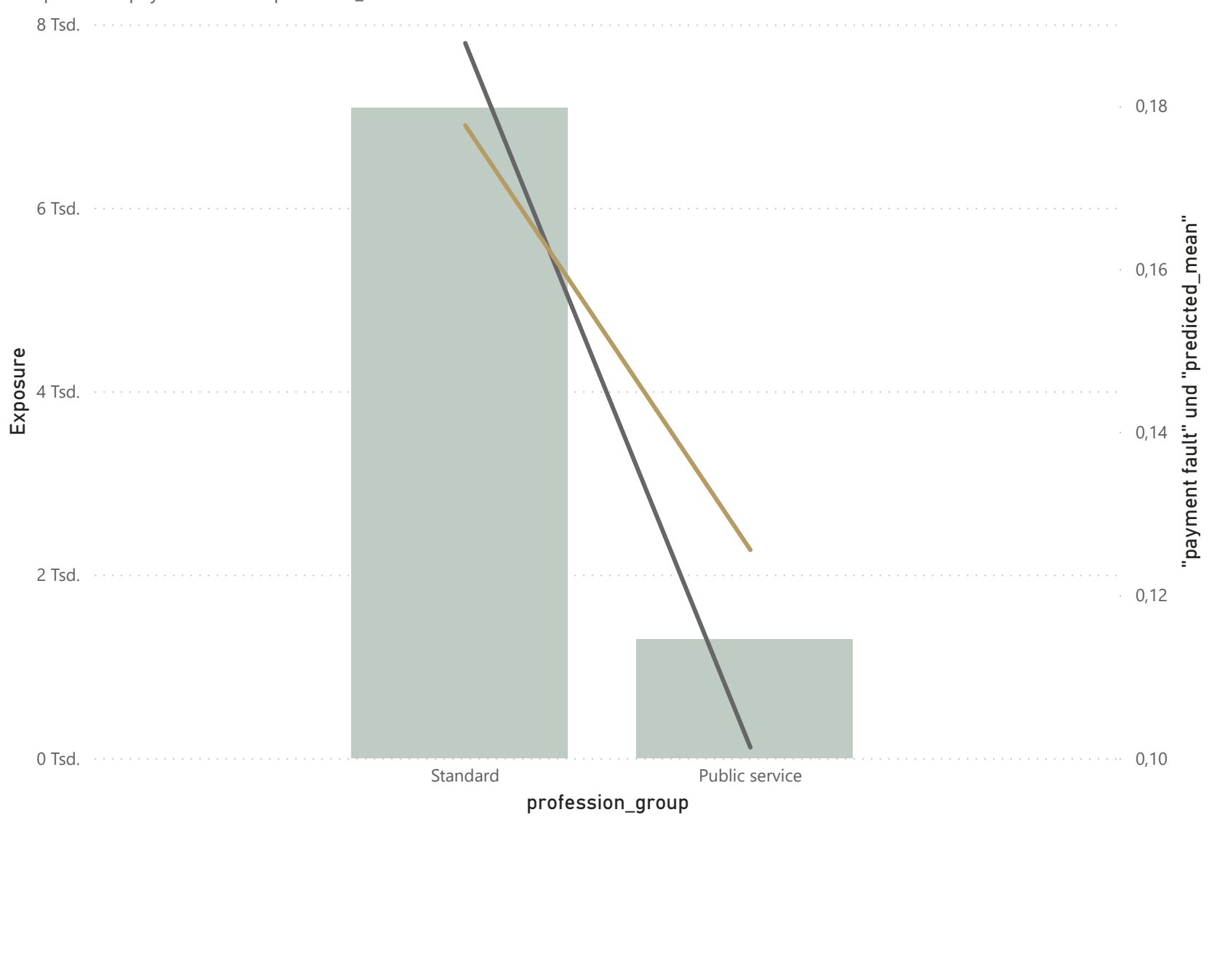
## SF-Class third party liability



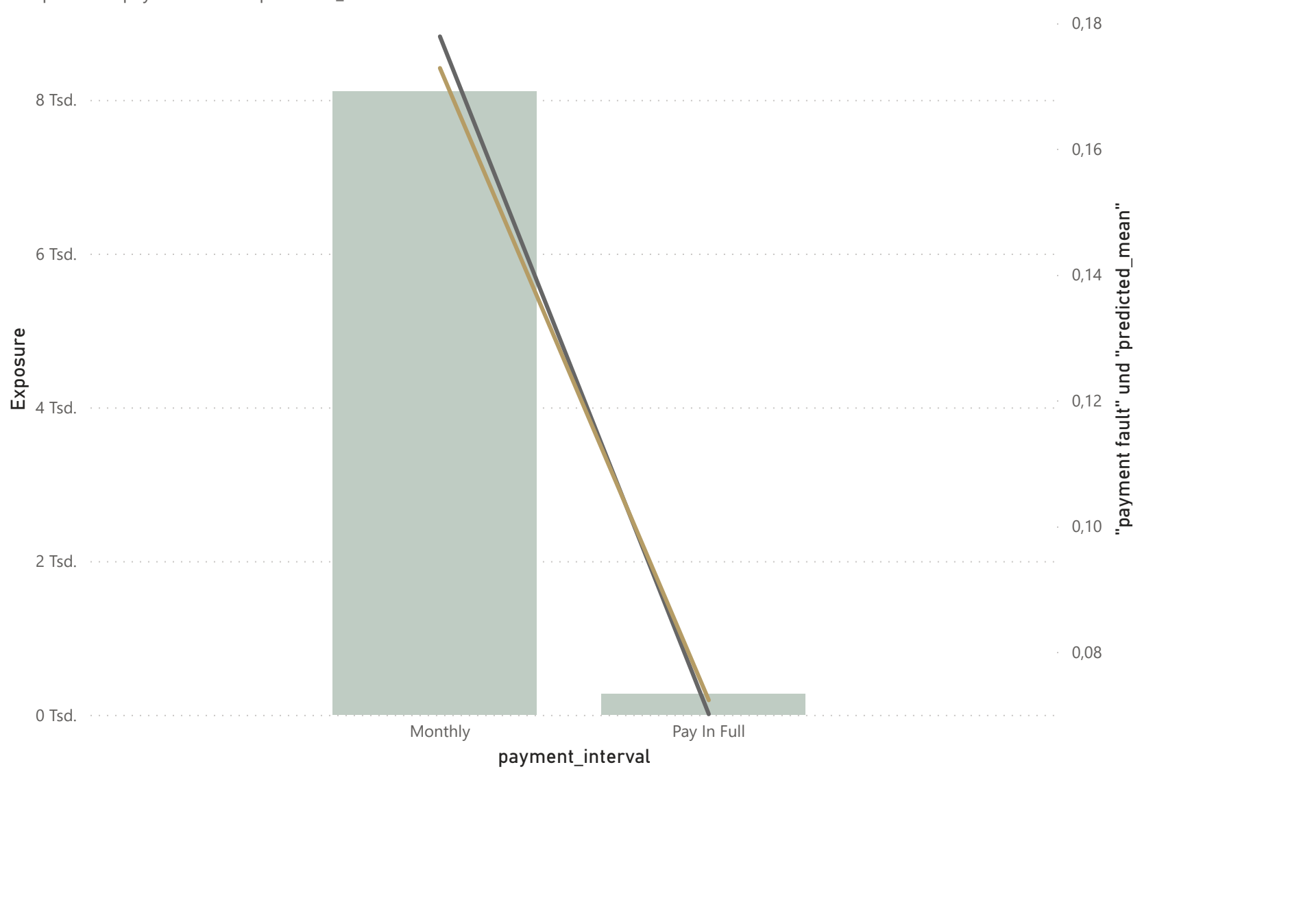
## SF-Class full comprehensive cover



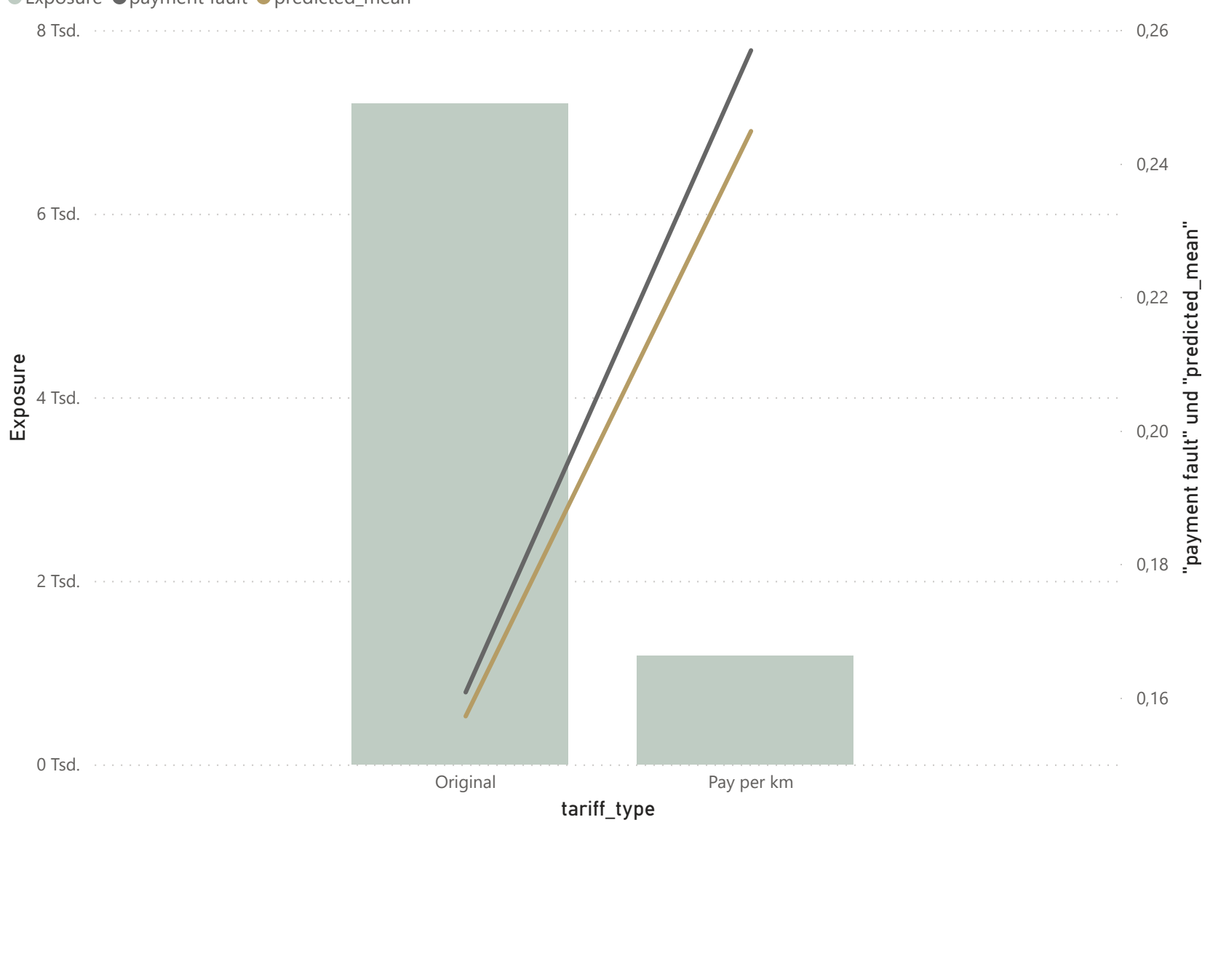
## Profession group



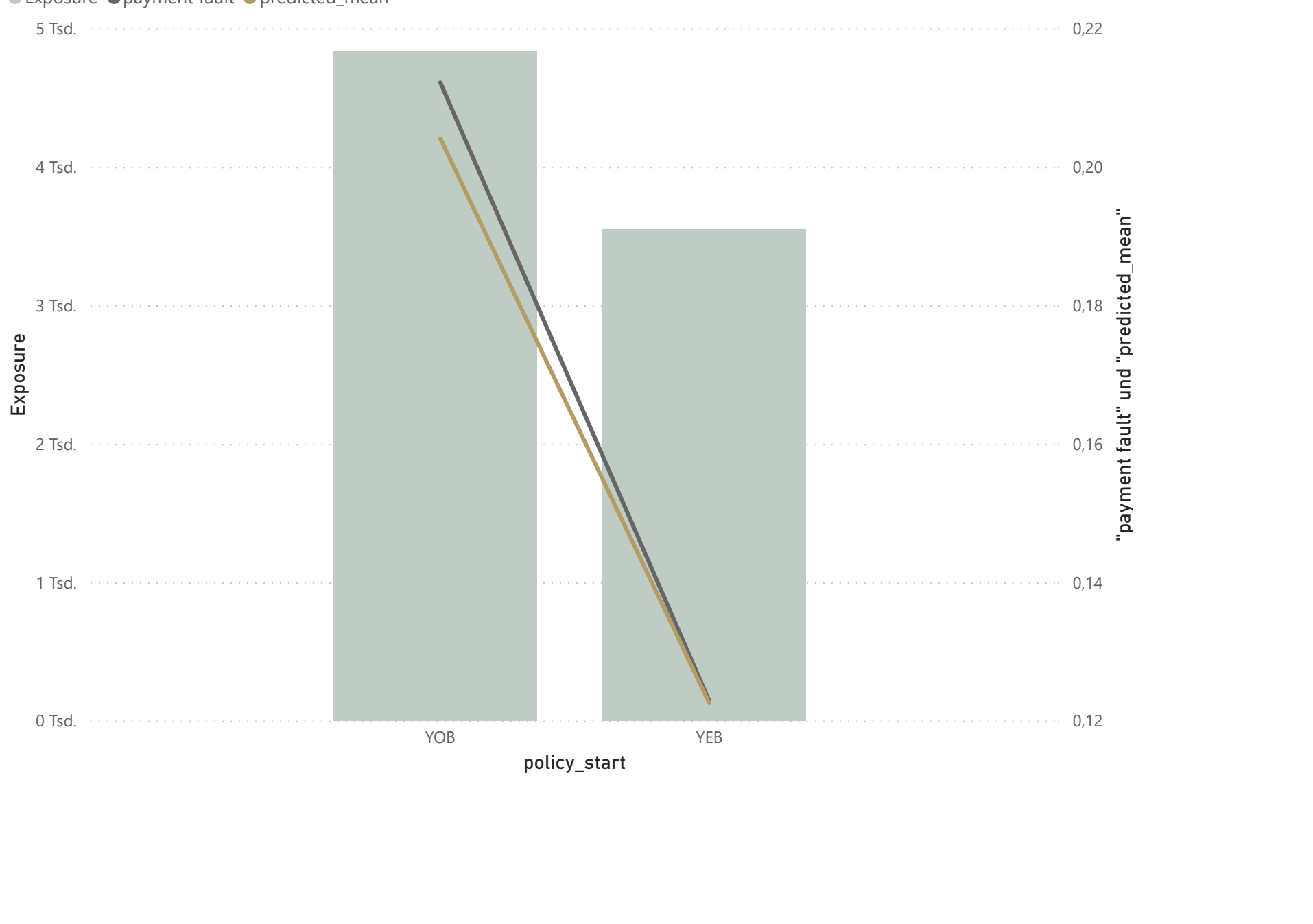
## Payment



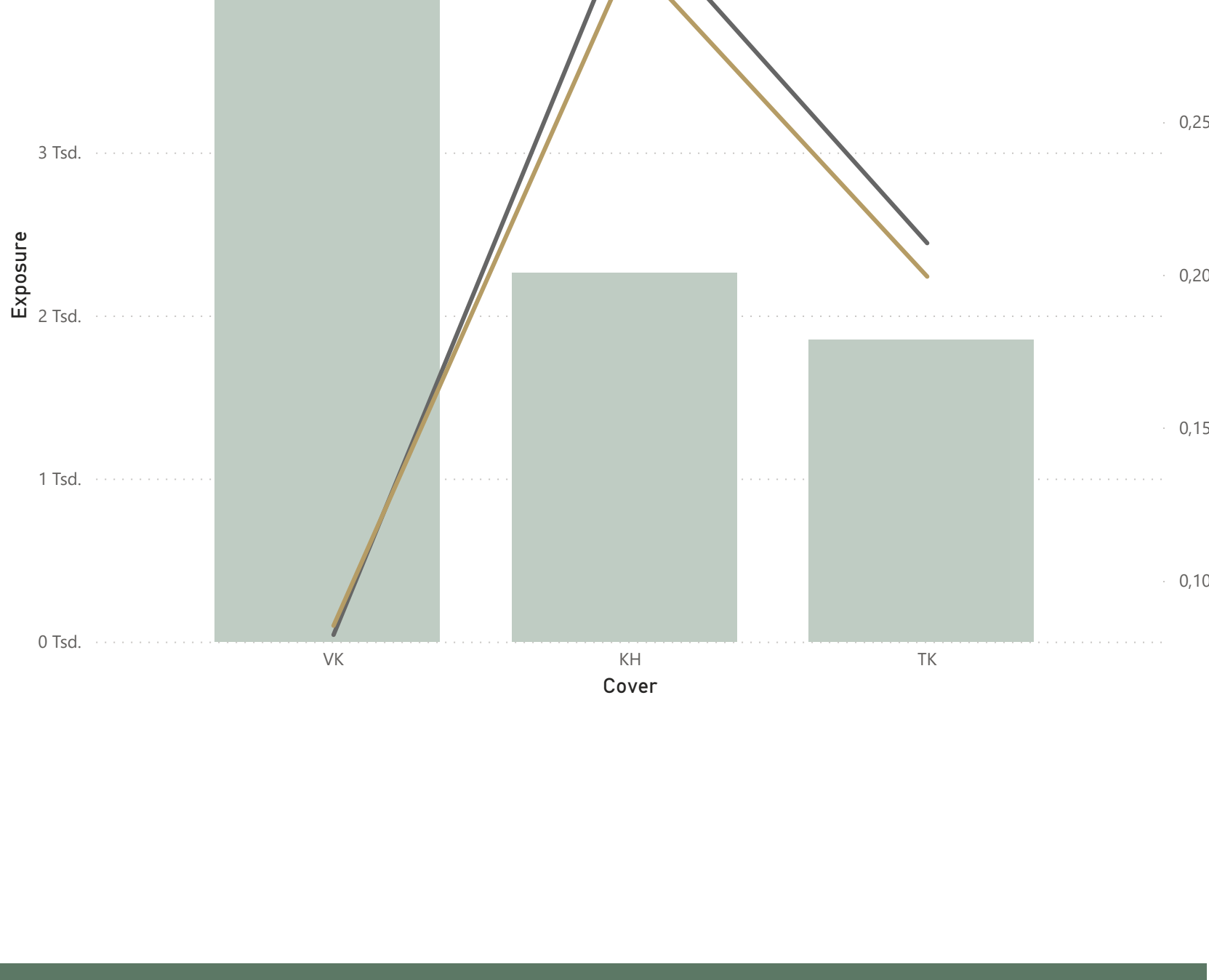
## Tariff type



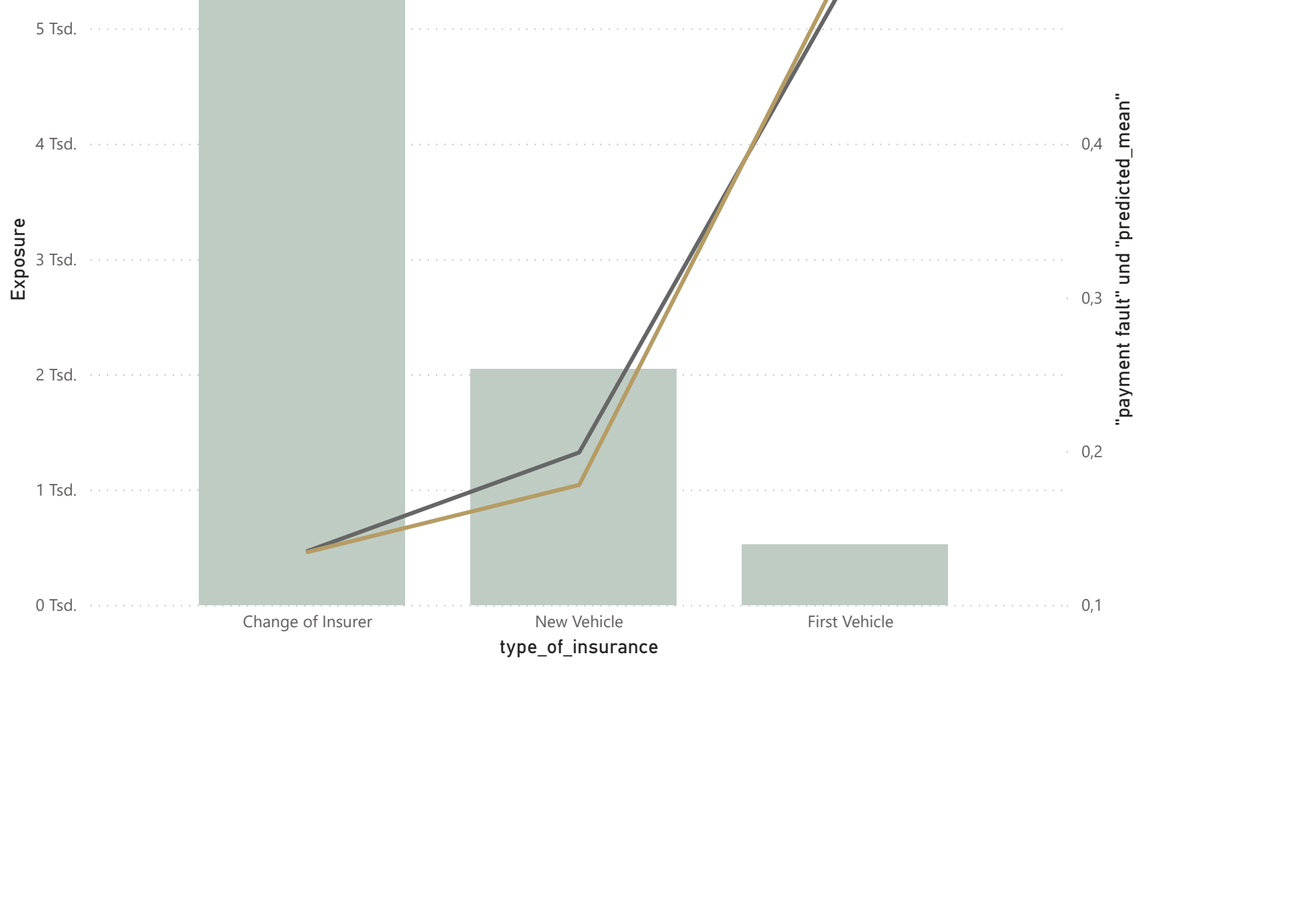
## Policy start



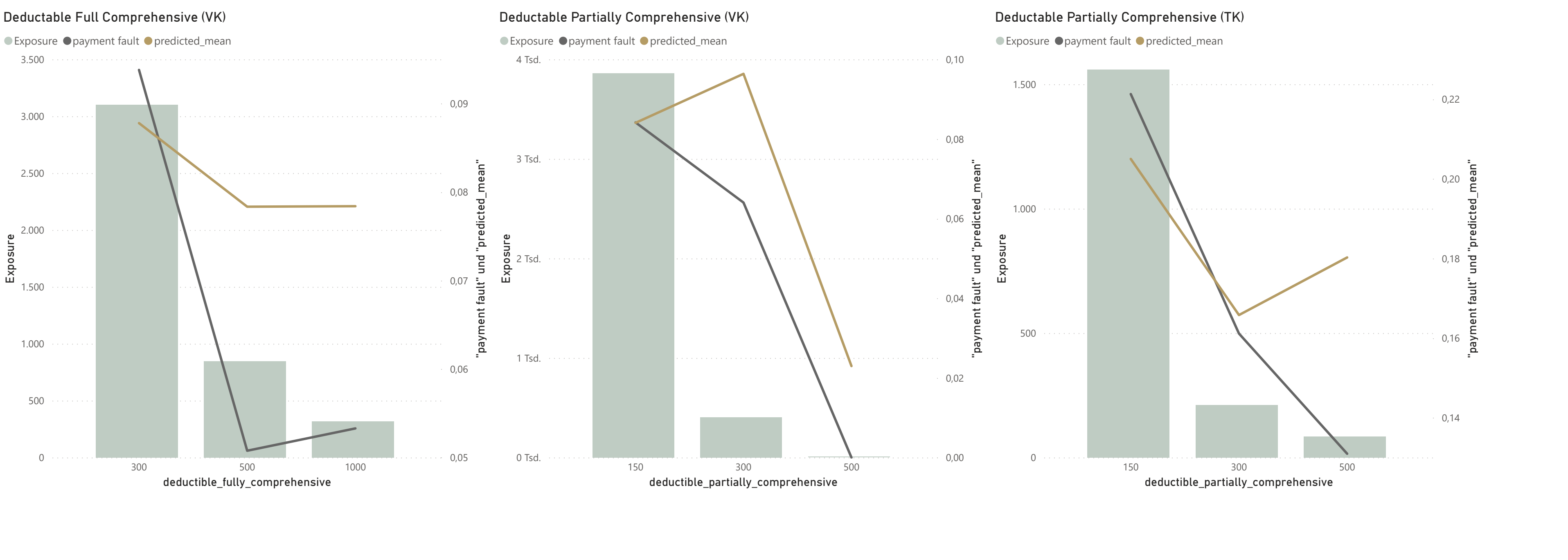
## Cover



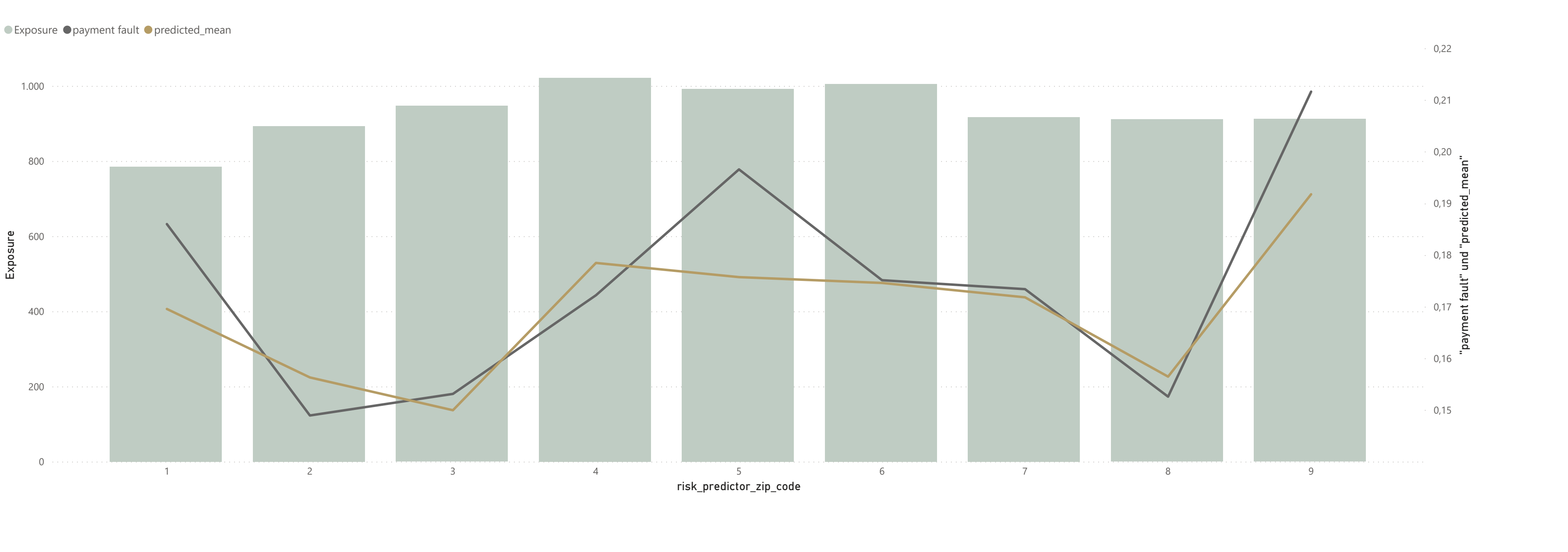
## Type of insurance



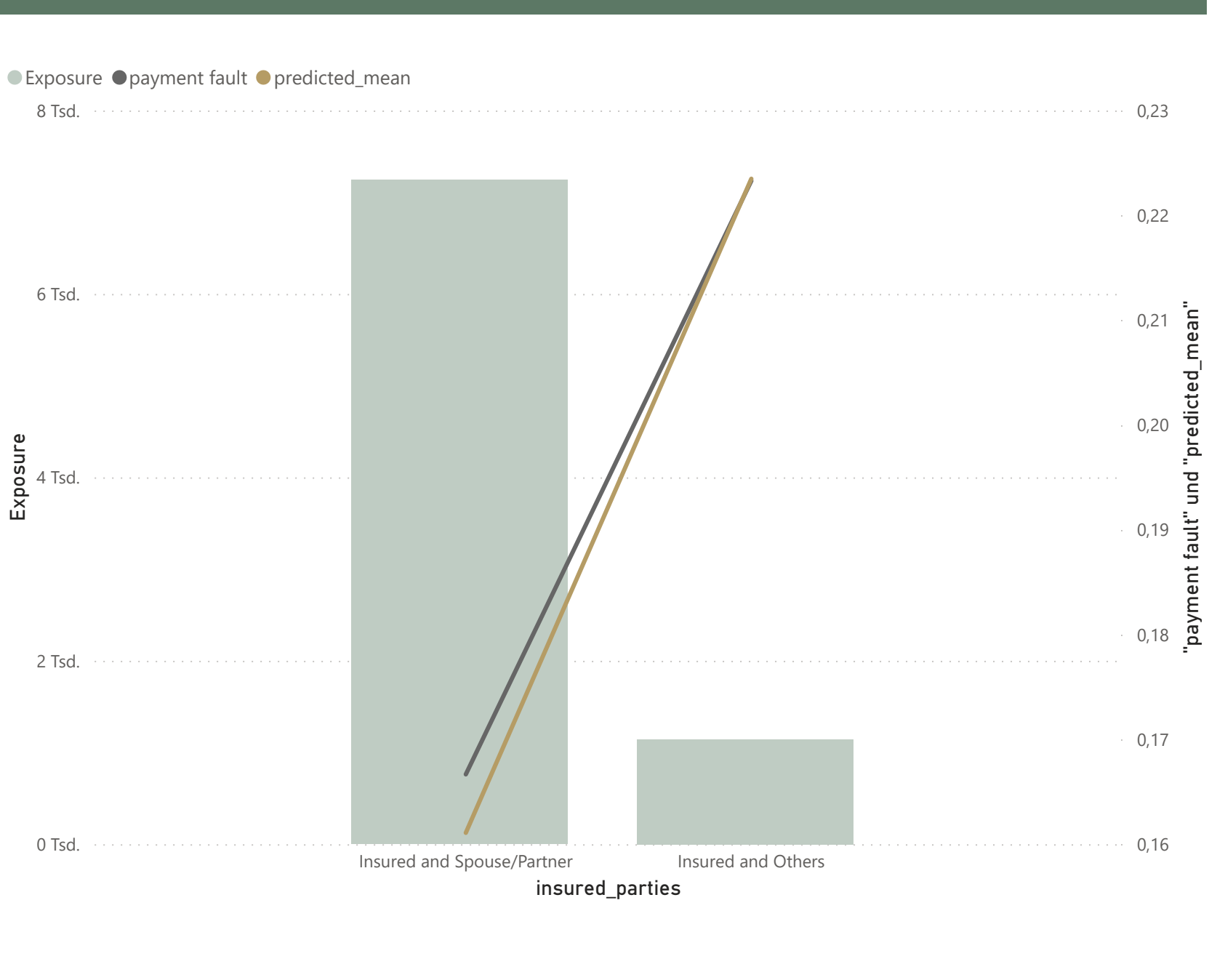
## Deductibles



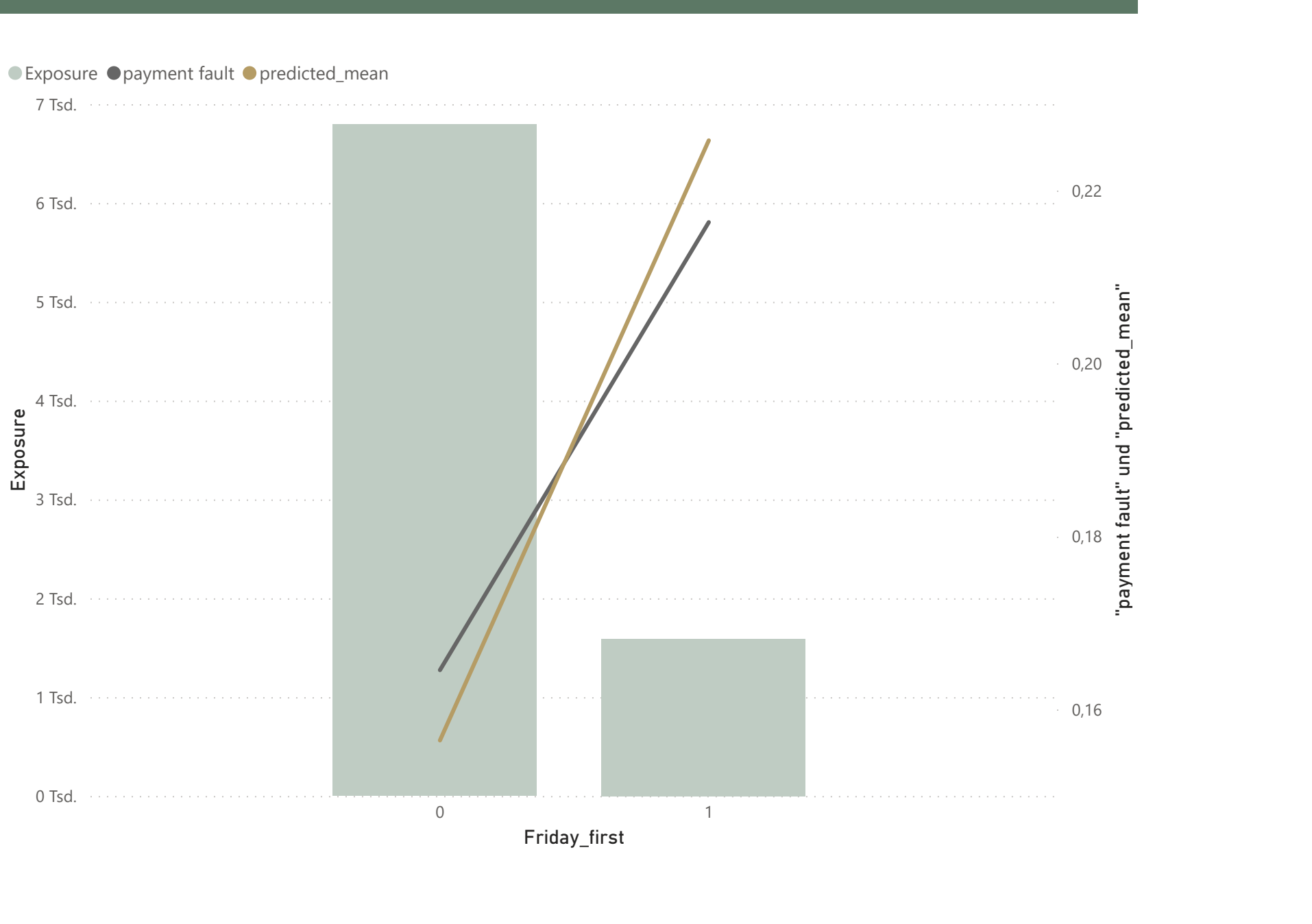
## Regional class (FC)



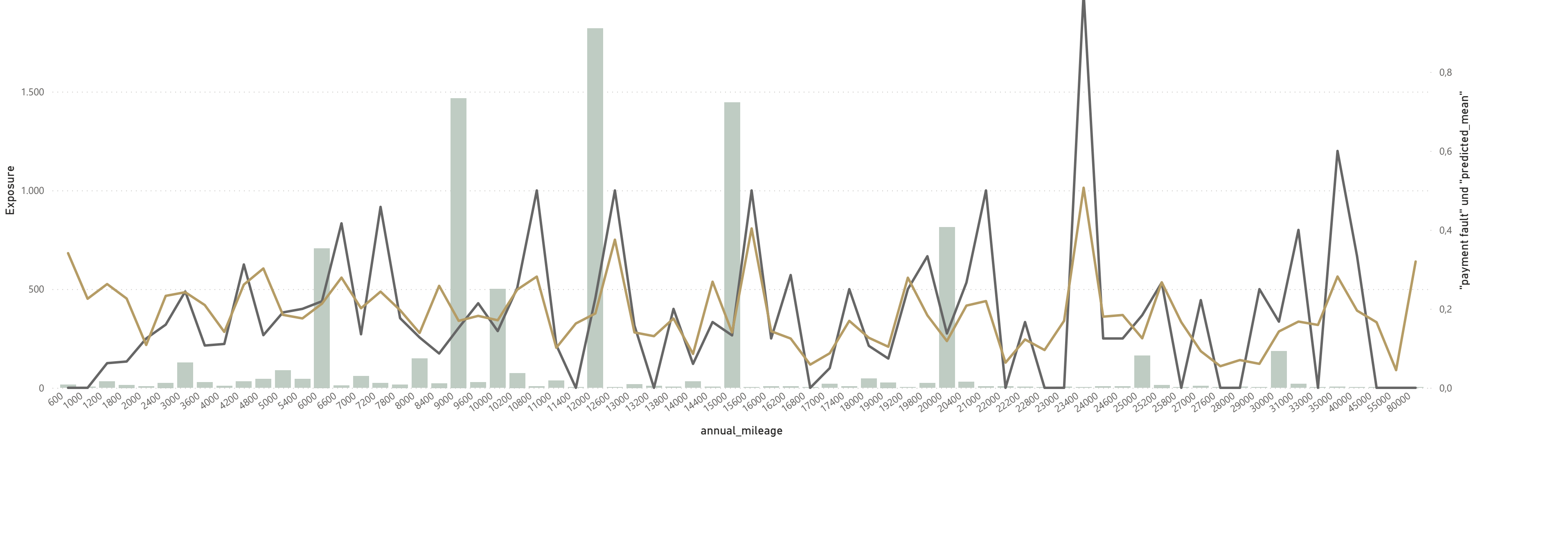
## Insured parties



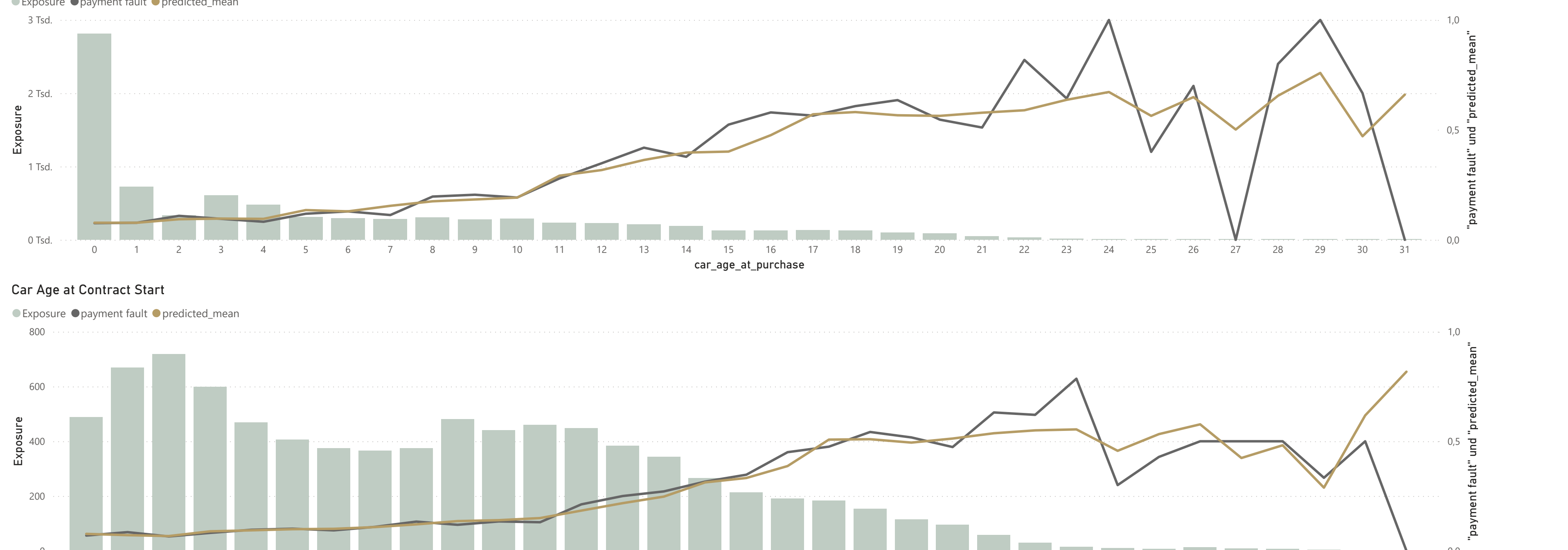
## Friday first insurer (car age purchase = contract start)



## Annual mileage



## Car Age



## Next Steps:

- (I) Checking, that all used Features are actually available at the point of the application
- (II) Extracting the factors and bounds for each field to generate a rating matrix
- (III) Testing the rating matrix for holes