

# Allianz: Is Simplicity the Way Forward?

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## Analysis Summary

Allianz is an insurance company in Europe that is facing a difficult decision - should they eliminate personalized insurance policies and replace them with a simple 3-tier coverage system? Our analysis shows that for the switch to be profitable in the **first** year for all countries, the third scenario will have to be achieved. If there is a strong push to implement the changes, our recommendation would be to roll it out into France first.

## Analysis Design

This analysis will go over profit scenarios for four countries. Germany, France, Spain, and Italy. These four countries represent the four biggest markets under Allianz's belt. "If they can make it work there, they would be 95% there" (De la Sota). The analysis includes a sensitivity analysis over total customer value where 3 possible scenarios can occur: where churn can change by +2% for current customers (unhappy customer who don't like the system update), change by -2% in future customers (customers attracted by new system), and where customer acquisition can increase by 100k. The following transformations are applied to each country to be analyzed and interpreted.

## Single Analysis Example: Germany

This is an example analysis for total value for Germany only. This exact analysis will be replicated for the three other countries. It is essential to understand what is happening in this single analysis, which is why this single example is singled out. The first step in this analysis is to calculate the total value of customers under the current conditions (see appendix 1-4). The next step is to calculate the same total value of customers variable for different scenarios. An example of 1 of the 3 profit scenarios we are testing in our sensitivity analysis can be seen in appendix 5-8 - the two other scenarios are not provided in the appendix but can be viewed in the `.qmd` file attached. Below is a single concatenated table showing value in customers over the three scenarios and its relative change to current standards.

Table 1: Germany

scenarios	germany	germany_relative_change
current	13573001437	0.0000000
profit scenario 1	12818628084	-5.5578964
profit scenario 2	13645602512	0.5348933
profit scenario 3	14220221856	4.7684399

**i** Note

1. This scenario is an aggregated analysis for Germany and is a sum of split markets including: Agents, Brokers, Aggregators, etc..
2. New customers per year was assigned as a constant variable of the previous years new customers. The same is true for the following analysis.

**Four Country Analysis**

Below is a summary table following the same process as applied in the single example. As can be seen, applying the change will affect each country differently, given that each country has their own unique ways of serving their customers. Some general trends to highlight are:

1. In all countries, profit scenario 1 leads to a negative trend.
2. Germany is the only country to be slightly profitable in scenario 2.
3. In all scenarios, France generally has the most to gain from this change.

Table 2: All Countries Relative Change

scenarios	germany	france	italy	spain
current	0.0000000	0.0000000	0.0000000	0.0000000
profit scenario 1	-5.5578964	-3.4536477	-4.788938	-4.772523
profit scenario 2	0.5348933	-0.5846243	-2.158645	-1.464440
profit scenario 3	4.7684399	5.6061228	3.334452	5.410620

**!** Important

1. Variables are changeable values and can be adjusted and further optimized.
2. This analysis only shows the potential results for one year. The program can still be an overall success if sequential years are profitable.

## Appendix

### 1. Value of Germany Current Customers Current Conditions

```
$value_of_current_base  
[1] 8826168224
```

### 2. Value of Germany Future Customers Current Conditions

```
$npv_of_future_customers  
[1] 4746833213
```

### 3. Germany Cashflows Current Conditions

```
$cashflows  
# A tibble: 10 x 4  
  time  cashflow discount_rate present_value  
  <int>    <dbl>         <dbl>         <dbl>  
1     1  772525246.         0.1    702295678.  
2     2  772525246.         0.1    638450616.  
3     3  772525246.         0.1    580409651.  
4     4  772525246.         0.1    527645137.  
5     5  772525246.         0.1    479677398.  
6     6  772525246.         0.1    436070361.  
7     7  772525246.         0.1    396427601.  
8     8  772525246.         0.1    360388728.  
9     9  772525246.         0.1    327626117.  
10    10  772525246.         0.1    297841924.
```

### 4. Total Value of Germany Customers Current Conditions

```
$total_value_of_customers  
[1] 1.3573e+10
```

### 5. Value of Germany Current Customers Profit Scenario 1 Conditions

```
$value_of_current_base  
[1] 8071794872
```

## 6. Value of Germany Future Customers Profit Scenario 1 Conditions

```
$npv_of_future_customers  
[1] 4746833213
```

## 7. Germany Cashflows Profit Scenario 1 Conditions

```
$cashflows  
# A tibble: 10 x 4  
  time  cashflow discount_rate present_value  
  <int>    <dbl>      <dbl>      <dbl>  
1     1 772525246.         0.1  702295678.  
2     2 772525246.         0.1  638450616.  
3     3 772525246.         0.1  580409651.  
4     4 772525246.         0.1  527645137.  
5     5 772525246.         0.1  479677398.  
6     6 772525246.         0.1  436070361.  
7     7 772525246.         0.1  396427601.  
8     8 772525246.         0.1  360388728.  
9     9 772525246.         0.1  327626117.  
10    10 772525246.         0.1  297841924.
```

## 8. Total Value of Germany Customers Profit Scenario 1 Conditions

```
$total_value_of_customers  
[1] 12818628084
```