

DIMENSIO - the new dimension of database performance tuning

If you think everything has already been said about speeding up databases, we will take you to a new dimension!

-  **Up to 1,000x faster than conventional database tuning methods**
Send your data on the fast lane!
-  **AI instead of KIWI – artificial intelligence instead of „Kill It With Iron“**
Rely on artificial intelligence instead of new hardware!
-  **Big Data analyses in real-time**
Increase your database performance!
-  **Investment and technology protection**
Easily integrate DIMENSIO in any existing IT infrastructure – in a minimally invasive way!
-  **Short-term Return on Investment**
Optimise your IT – without any additional database licenses!

The DIMENSIO Power Application



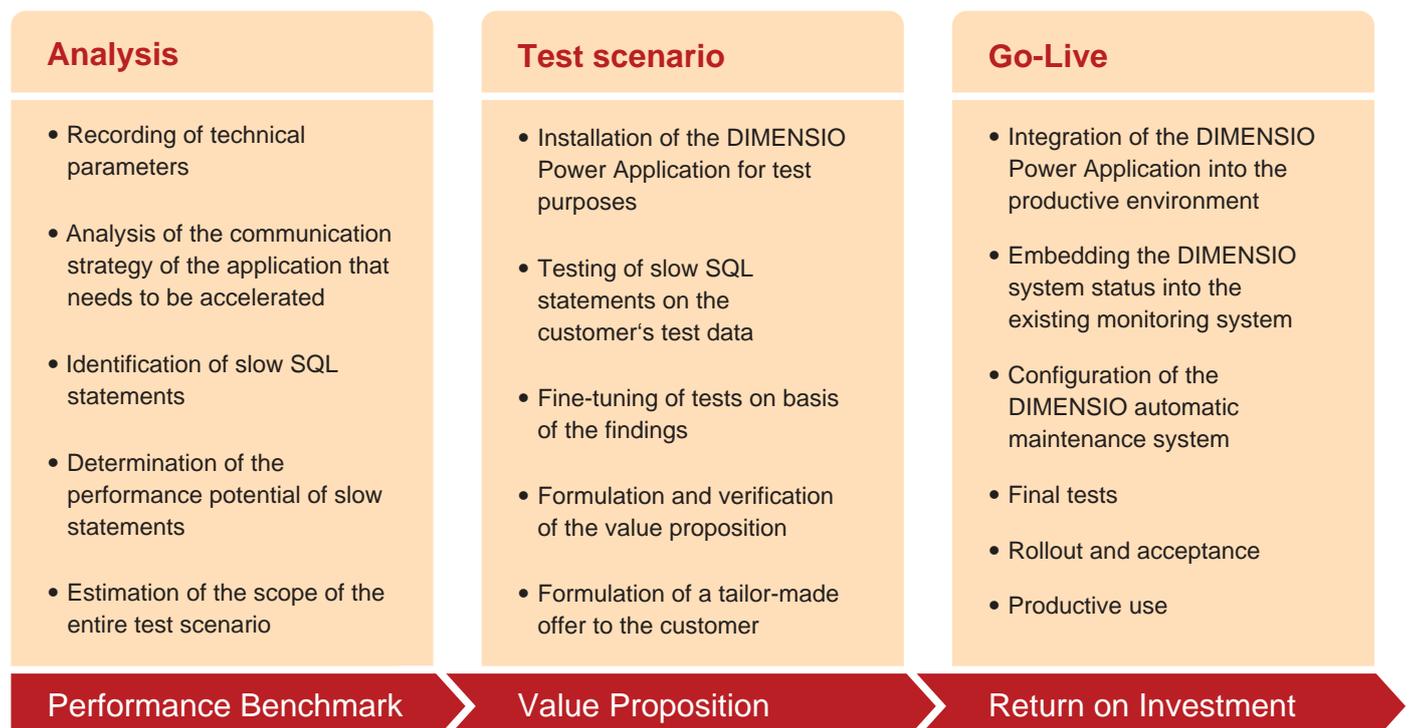
DIMENSIO is the solution the big data age has been waiting for. This unique indexing technology was developed at the Chemnitz University of Technology by the company dimensio informatics GmbH and is based on the principle of artificial neural networks. This enables DIMENSIO to independently group data records within a database according to their contextual dependencies and is able to create multi-dimensional index structures.

Due to its semantic index DIMENSIO achieves significant performance gains in highly complex database queries by up to a factor of 1,000 or higher, making it a perfect partner for big data applications. When employed for complex analyses of structured and unstructured data, DIMENSIO reduces the processing time from hours to a few seconds.

While doing so, DIMENSIO easily integrates into existing databases and IT landscapes in a minimally invasive way. This unique Power Application achieves an enormous acceleration

- without the need to change the structure of databases
- without time-consuming and costly conventional tuning methods
- without having to buy additional licenses or hardware.

3 steps to reach maximum performance



DIMENSIO success stories



PUBLIC SECTOR

Geographical information at the push of a button — DIMENSIO in the Canton of Aargau

The Swiss Canton of Aargau offers its administrative staff, citizens and visitors comprehensive, current, as well as historical map material by means of an online platform. Due to the huge amount of data which has to be retrieved in the background of the system, the image display of the maps was considerably delayed. Thanks to DIMENSIO, the response times of the geographical information system (GIS) were reduced by a factor of 35. Today Aargau is able to offer a 100% service – and all that within just fractions of a second.

Dr. Pius Hauenstein, GIS expert of the Canton of Aargau:



The concept and the effect of DIMENSIO as well as the support by the team are very convincing and highly recommendable!



HEALTH CARE

Performance that benefits health —

DIMENSIO in the hospital information system of KABEG

In its five hospitals the hospital operator KABEG (Landeskrankenanstalten-Betriebsgesellschaften) provides medical care to more than 80 percent of the population of the Austrian federal province Carinthia. The medical staff accesses important patient records using the hospital information system (HIS). Within a matter of a few weeks, DIMENSIO significantly reduced the database response times as follows:

Database query	before	with DIMENSIO	Acceleration
Temperature curve of a patient in long-term care	5:51 minutes	8-10 seconds	Factor 70
Activities of the Psychiatric Crisis Service (PKN) of the last 10 days	9:28 minutes	23 seconds	Factor 25
PKN activities of last year	impracticable	65 seconds	

Mag. Harald Brunner, head of HIS management at the KABEG in Klagenfurt:



DIMENSIO accelerates our hospital information system and generates a completely new feeling of satisfaction with doctors. The success is clearly visible: before the retrieval of the temperature curve of a patient required several minutes, now the curve can be opened within fractions of a second.



INSURANCE

Faster insurance coverage — DIMENSIO in the CRM system of the Swiss Mobiliar

At the Swiss Mobiliar Insurance Company, around 80 general agencies care for more than 1.2 million customers. The implemented CRM solution was no longer able to cope with the administration of customer and contractual data, nor could it support the planned marketing activities. Long response times were the consequence. DIMENSIO succeeded in reducing the duration of the SQL queries from more than 3 hours to 2 seconds, which translates into an acceleration by a factor of about 6,000. At the same time, the server load of 26 GB was reduced to 5 MB – which resulted in a reduction by a factor of about 5,000.

Thomas Baumann, IT Performance Architect, Die Mobiliar:



Up until now, the usage of the CRM was limited by the enormous amount of data to be processed. With DIMENSIO, data retrieval was tremendously accelerated thus contributing significantly to an increased efficiency within the data handling.





We think in new dimensions

- With DIMENSIO, complex database queries are affordable, profitable and beneficial for all types of organisations!
- We make your existing IT infrastructure fit for big data analyses in a very short time!
- With DIMENSIO, you can salvage the treasures in your most valuable raw material – your data!



The company dimensio informatics GmbH, with headquarters in Chemnitz, was founded in 2010 as a spin-off of the Chemnitz University of Technology. Since 2013 it has been a subsidiary of the big data group of micData AG, the Munich-based technology and solutions provider in the growing big data market (www.micdata.com).

The core of the company's offering is the DIMENSIO Power Application. This unique application, which has been registered for patent and has repeatedly been awarded, includes the analysis and optimisation of database processes. DIMENSIO speeds up database queries up to a factor of 1,000 and more due to its semantic, multi-dimensional database index. This acceleration is based on a unique technique from the field of artificial intelligence. DIMENSIO can be integrated into any existing system – in a universal and minimally invasive way, thus guaranteeing a sustainable investment and technology protection.

Further minimally invasive solutions for the analysis and optimisation of high-volume and complex database applications round up the company's portfolio.

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