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INVEKOS

Project Presentation

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What is INVEKOS ?



INVEKOS

- **Integriertes **V**erwaltungs und **K**ontroll **S**ystem = Integrated **A**dministration and **C**ontrol **S**ystem**
- **Management Of Agricultural Payments**
- **Calculation of “*Mehrfachanträge*” and their “*Beilagen*”**
- **380.000 Annual Requests**
- **40.000 Annual On-Site-Inspections**



INVEKOS

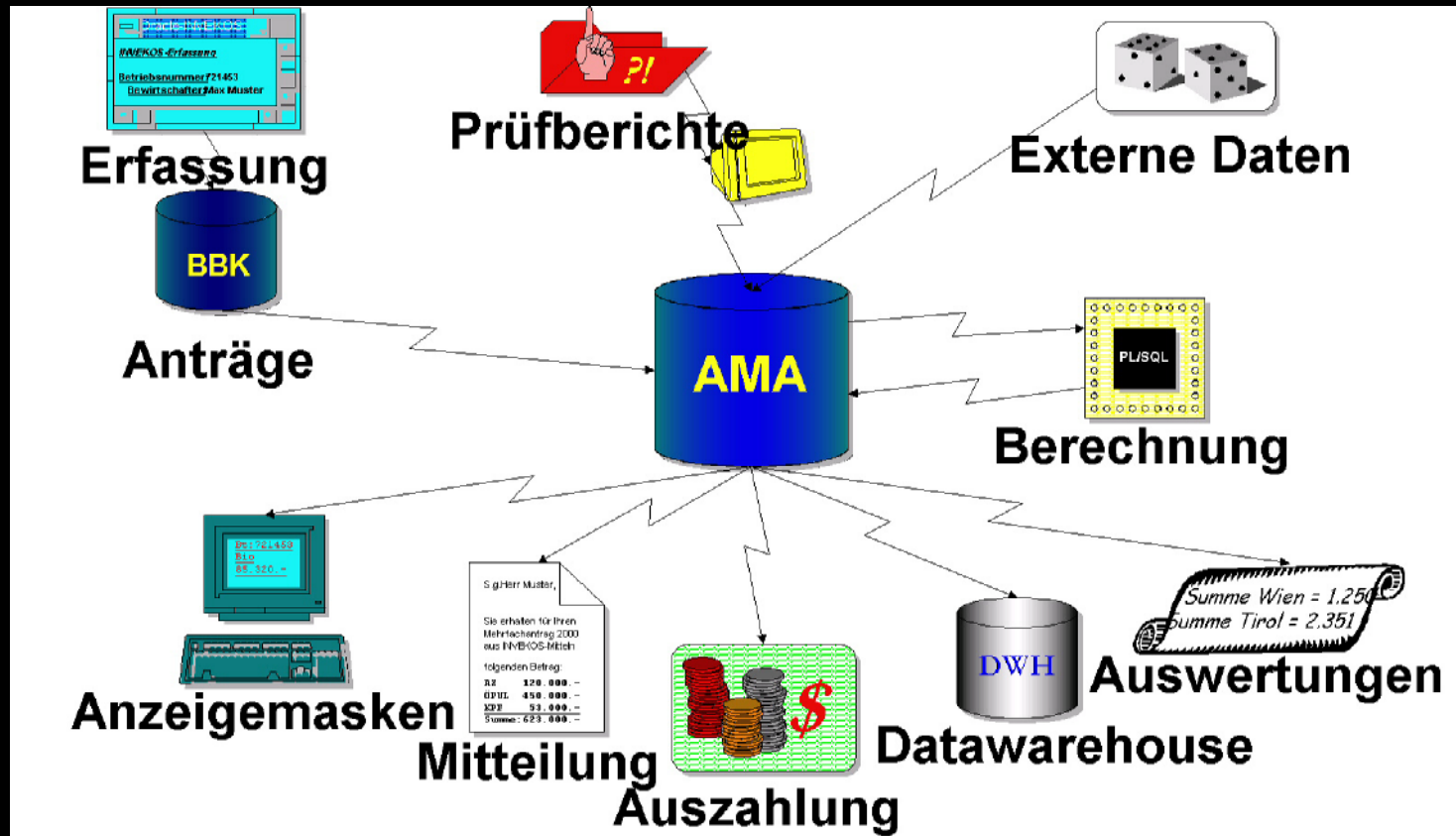
- **Administrative and On-Site Inspections**
- **Calculation of Payment Ammount**
- **Consider Sanctions**
- **Payment to the Farmers**
- **Notifications to the Farmers**

INVEKOS



- **3 Subprojects (“Beilagen“)
implemented by Oracle**

INVEKOS



Continuous Change



Changes in ...

- **EU-regulations**
- **national law**
- **regional programs**
- **Euro**

Data Sources



Plausifehler

- Übernutzungen
- Ungültige Nutzungsarten
- Fehlende Unterschrift
- ...



Stammdaten

- Betriebe
- Adressen
- Bezirksbauernkammern
- ...



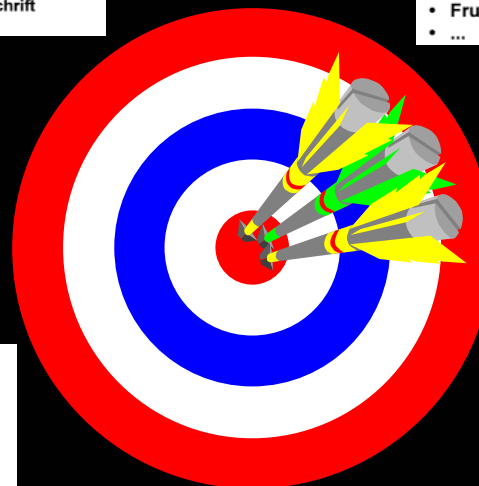
Antragsdaten

- Mantelantrag
- Schnellerfassung
- Fruchtfolgestabilisierung
- ...



Prüfberichte

- Flächenprüfbericht
- Bioprüfbericht
- Gesamtbetriebliche Unterlagen
- ...



Flächendaten

- Schläge
- Feldstücke
- Nutzungsarten
- ...



Korrekturen

- Antrags-Nachreichungen
- Flächen-Nachreichungen
- Maßnahmen-Nachreichungen
- ...



Tierlisten



Datenträger

- Projektbestätigungen
- Bio-Anmeldungen
- Regionalprogramme
- ...



Almauftriebslisten



Oracle's Role

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Oracle's Positioning



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Concepts & Strategies

Datawarehouse

Server & Tools

Mehrfachantrag MFA

**Austrian
Environmental
Program
(ÖPUL)**

**Basic Income
(AZ)**

**Compensation For
Cultivated Plants
(KPA)**



Our Customer

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The Contracting Authority...



INVEKOS - Customer



- **BMLF**
Bundesministerium für Land- Forst- und Wasserwirtschaft (1995-1998)
- **LFRZ**
Land- und Forstwirtschaftliches Rechenzentrum (1999-2000)

Involved Institutions



- **BMLF**
Bundesministerium für Land- Forst- und Wasserwirtschaft
- **BBKs & LWKs**
Bezirksbauernkammern und Landwirtschaftskammern
- **AMA**
Agrarmarkt Austria

BMLF's Duties



- **National Regulations**
- **Fundamental Decisions and Interpretation of EU-Regulations**
- **Institution for Appeals**

BBK's & LWK's Duties

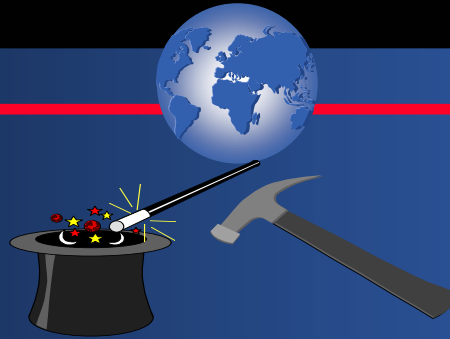


- **Consulting for Farmers**
- **Request Acceptance**
- **Data Acquisition**
- **Error Correction**
- **Request Distribution to AMA**
- **Data Transfer to AMA**

AMA's Duties



- **Generating and Delivery of Forms**
- **Risk Analysis**
- **On-Site-Inspections**
- **Administrative Inspections**
- **Calculation of Payment Ammounts**
- **Payment**
- **Delivery of Notifications**
- **Managing of Appeals**



Architecture-Platform Methods-Tools

Platform






- Oracle Server
 - **PL/SQL: Optimal Combination of Database Access and Procedural Code**
 - **Scalability**
 - **Internet-Datab ORACLE cle 8i)**



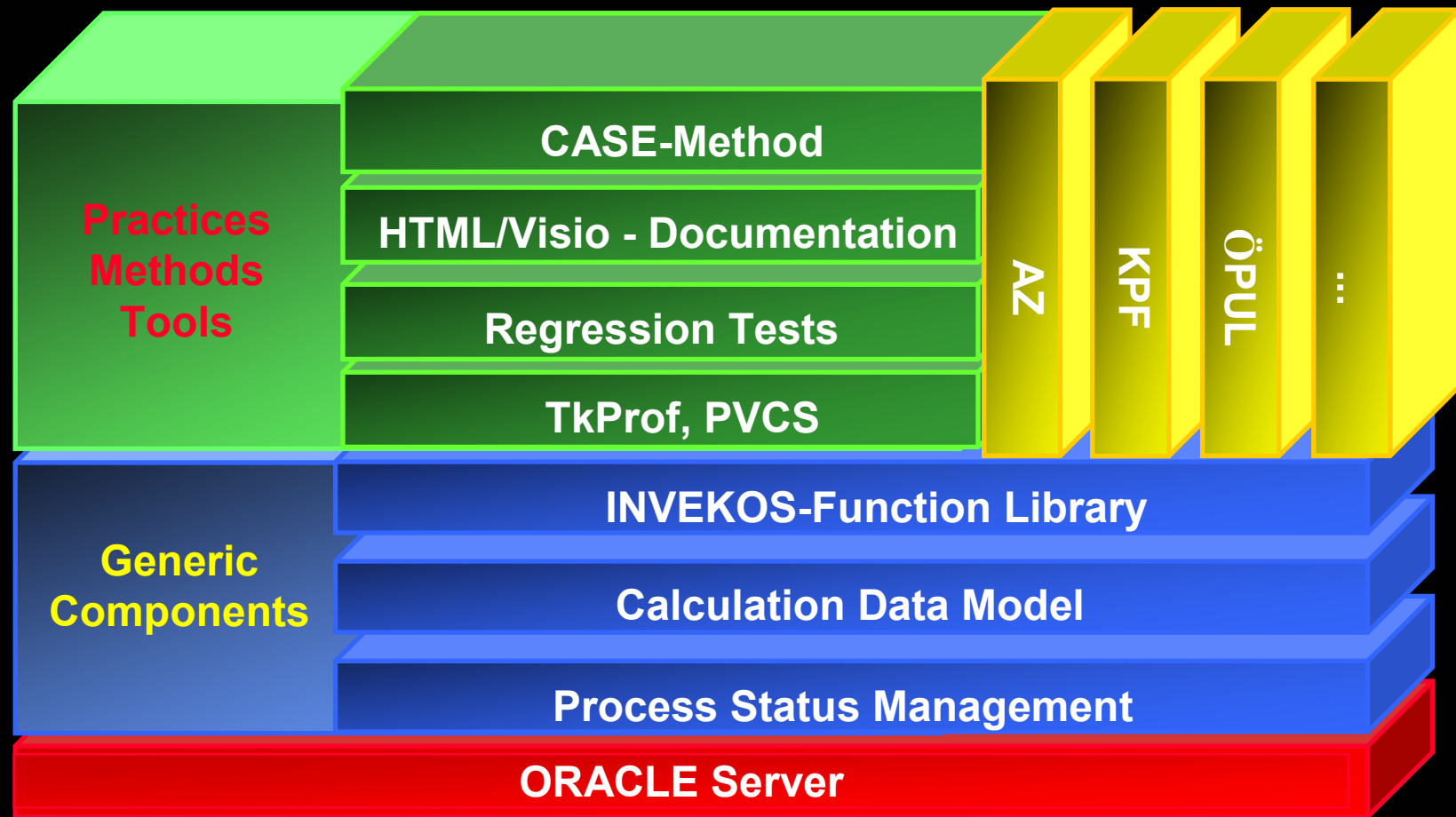
INTERNET

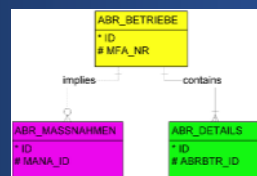
Methods & Tools



- Oracle Designer 
 - Business-Function and Entity Modelling
 - Transformation into Modules and Database Model
 - Generation of Database Objects and Forms
- Form Builder 
- Report Builder 

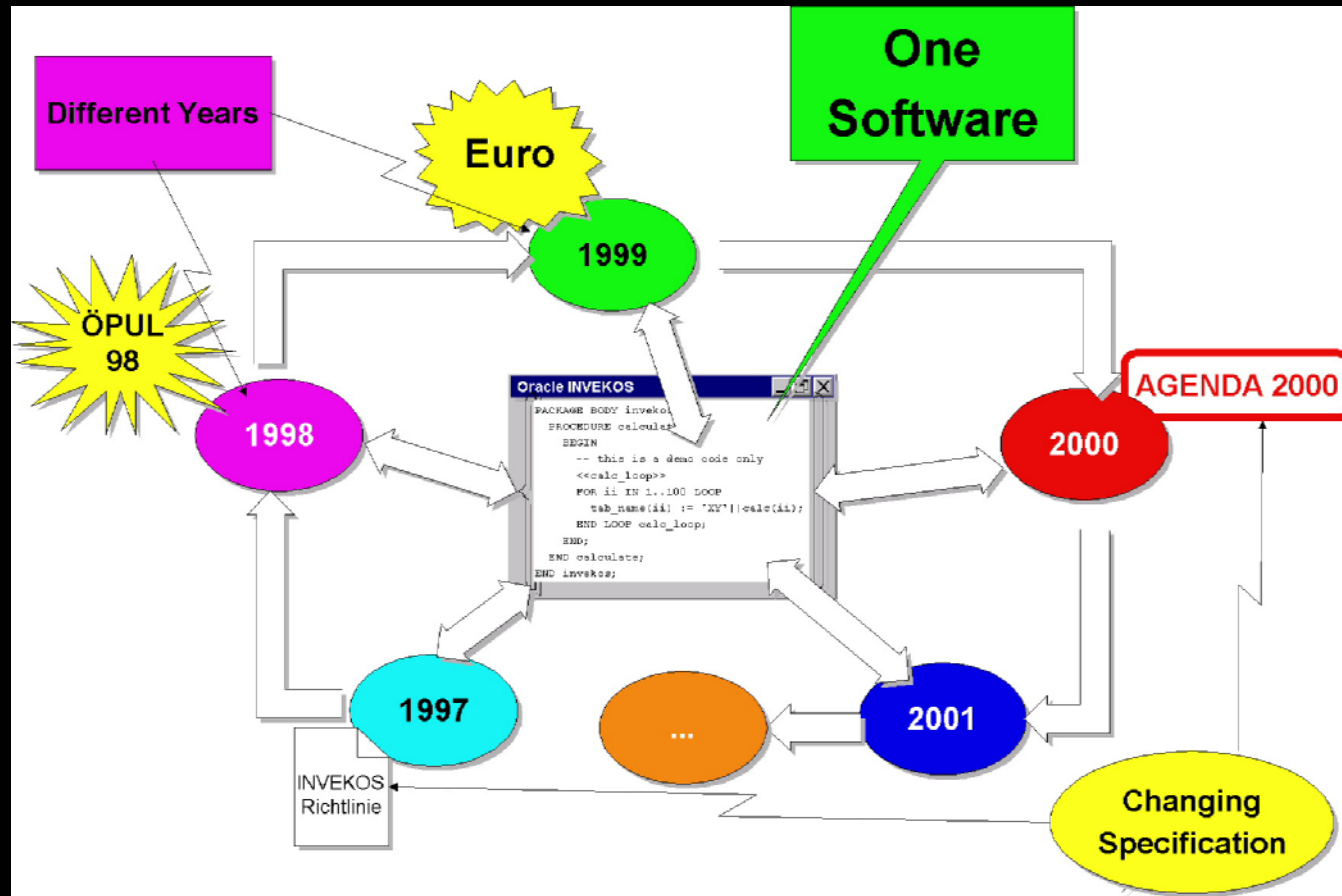
INVEKOS Architecture



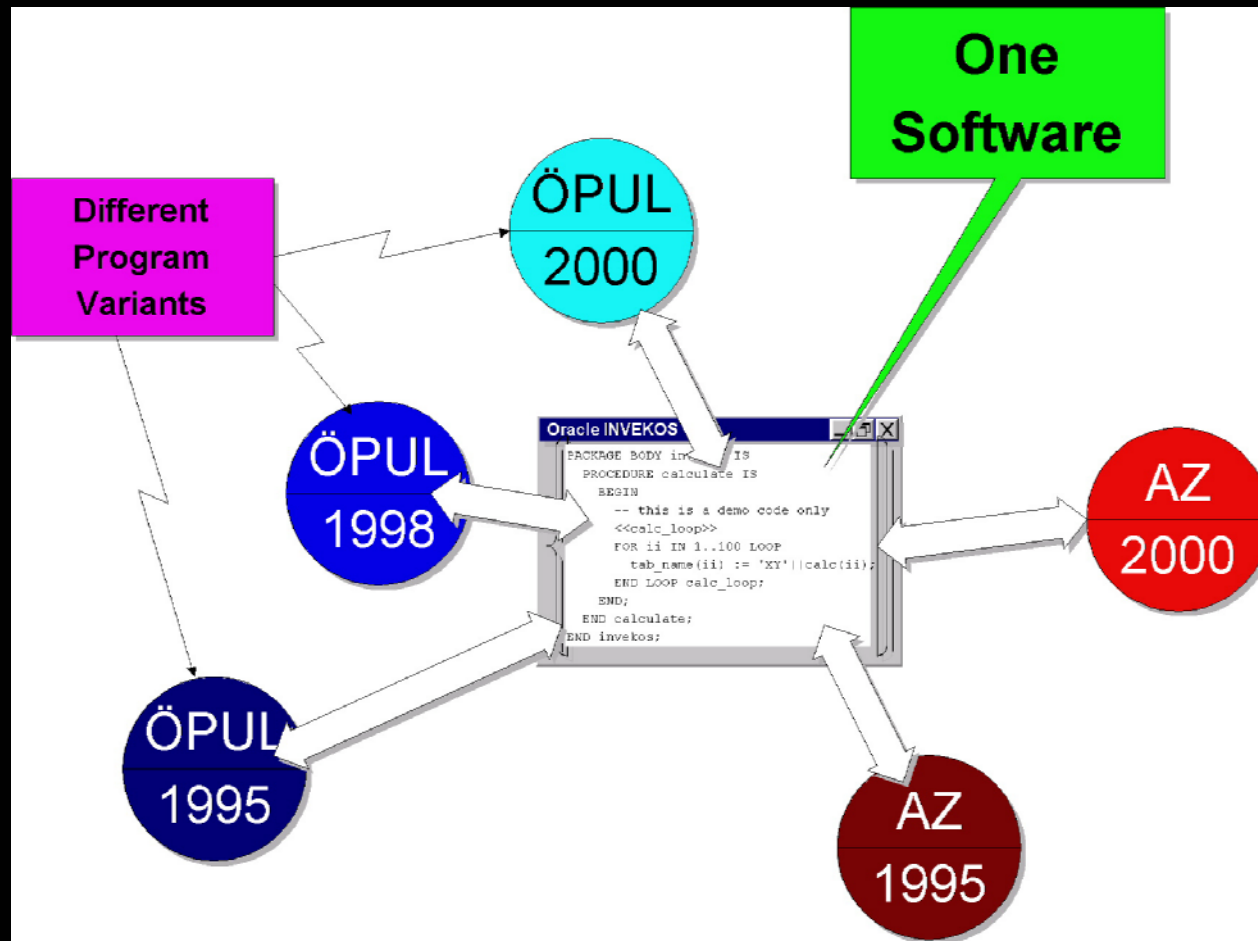


design principles

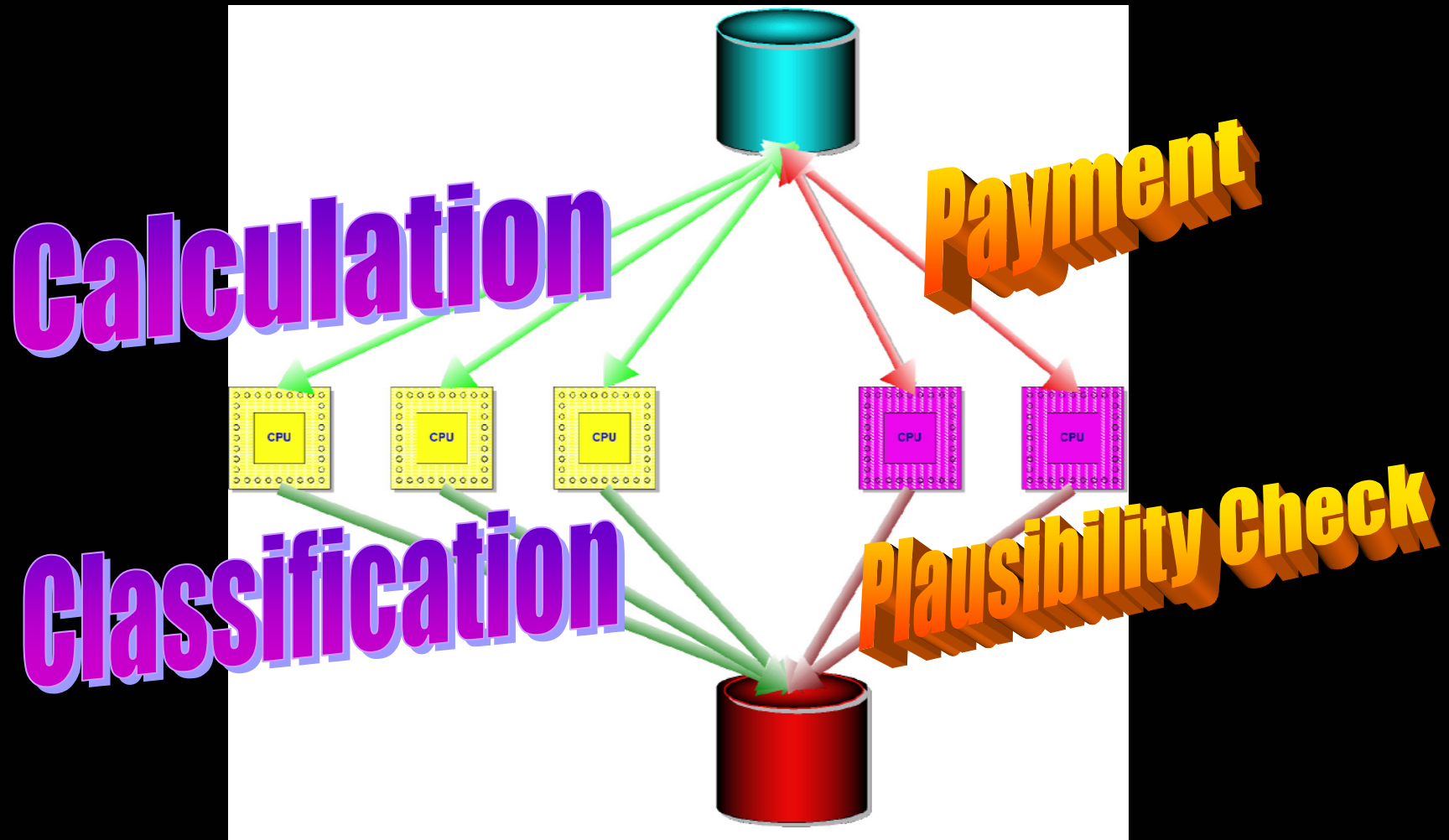
Multi-Year Functionality



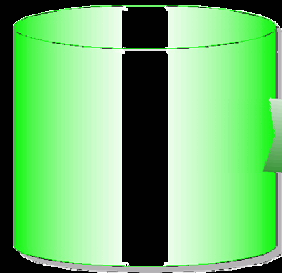
Multi-Program Functionality



Multi-Processing



Reduce Database Access

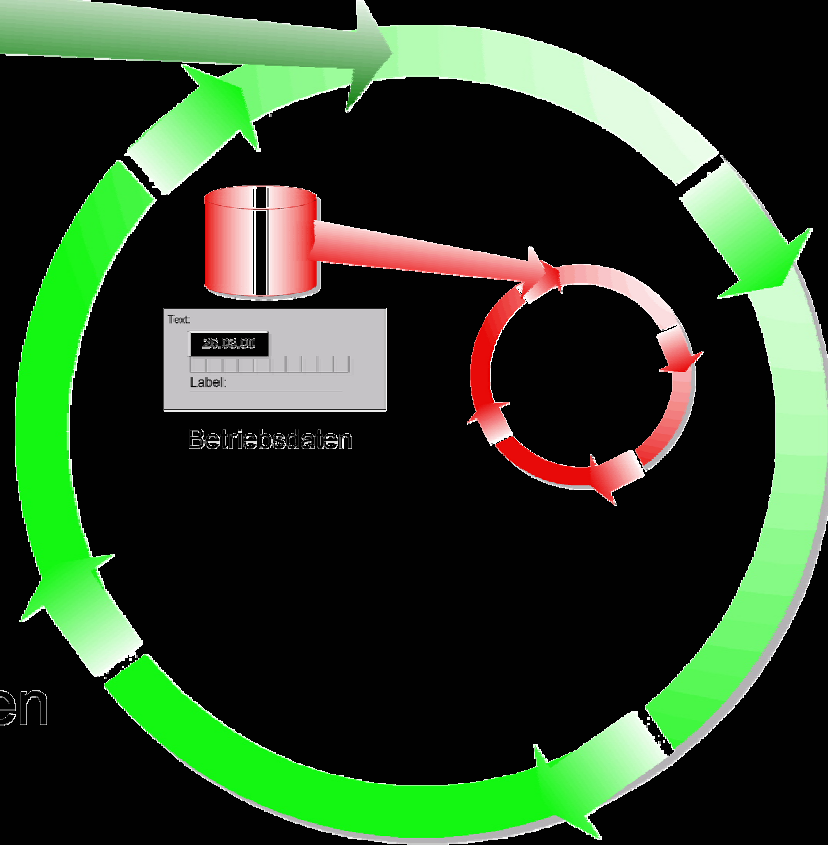


PL/SQL

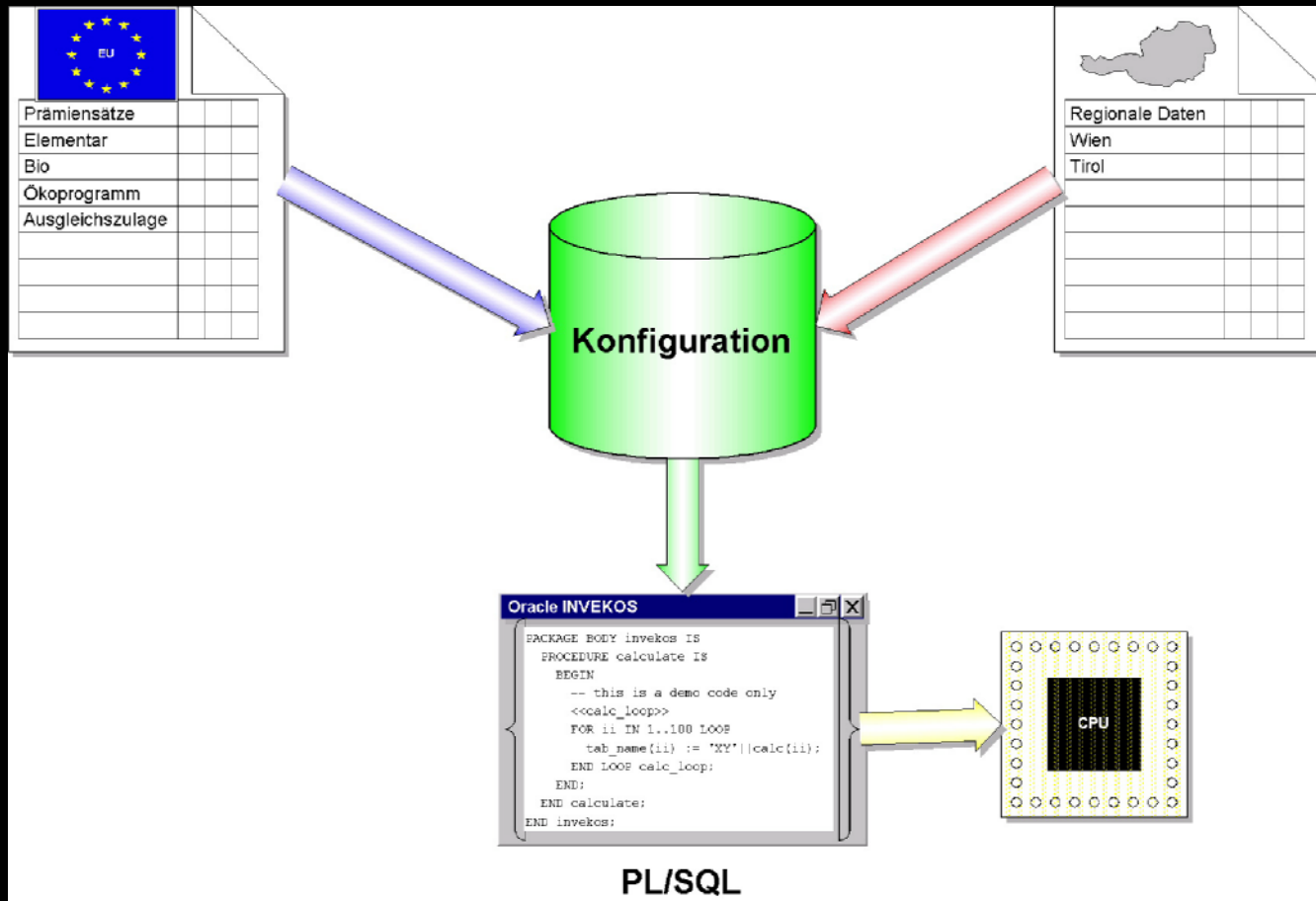
AZ	OPUL	KPF	MFA

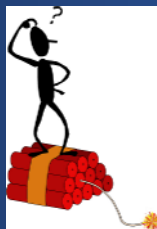
Premienätze			
Kofinanzierungsobergrenzen			

Konfigurationsdaten



Configurability



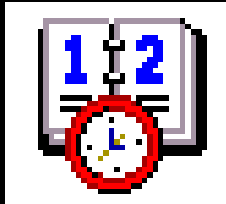


Critical Success Factors

The Project's Demands...



- **adherence to delivery dates**



- payments have to be transferred to the farmer's accounts by Oct,15th, otherwise the country loses all EU-supports

- **flexibility**

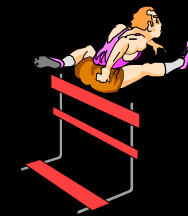
- change requests arrive in „last minute“

- **stability**

- tremendous changes of requirements, stable architecture required

- **performance**

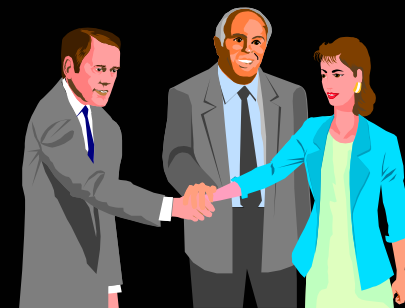
- huge data volume



What Leverages The Project...



- **Team Spirit**
 - full commitment required
 - ability to share knowledge
- **Motivation**
 - incentives to award success
- **Good Customer Relationship**
 - strong cooperation
 - social events





Some Numbers

INVEKOS - Numbers

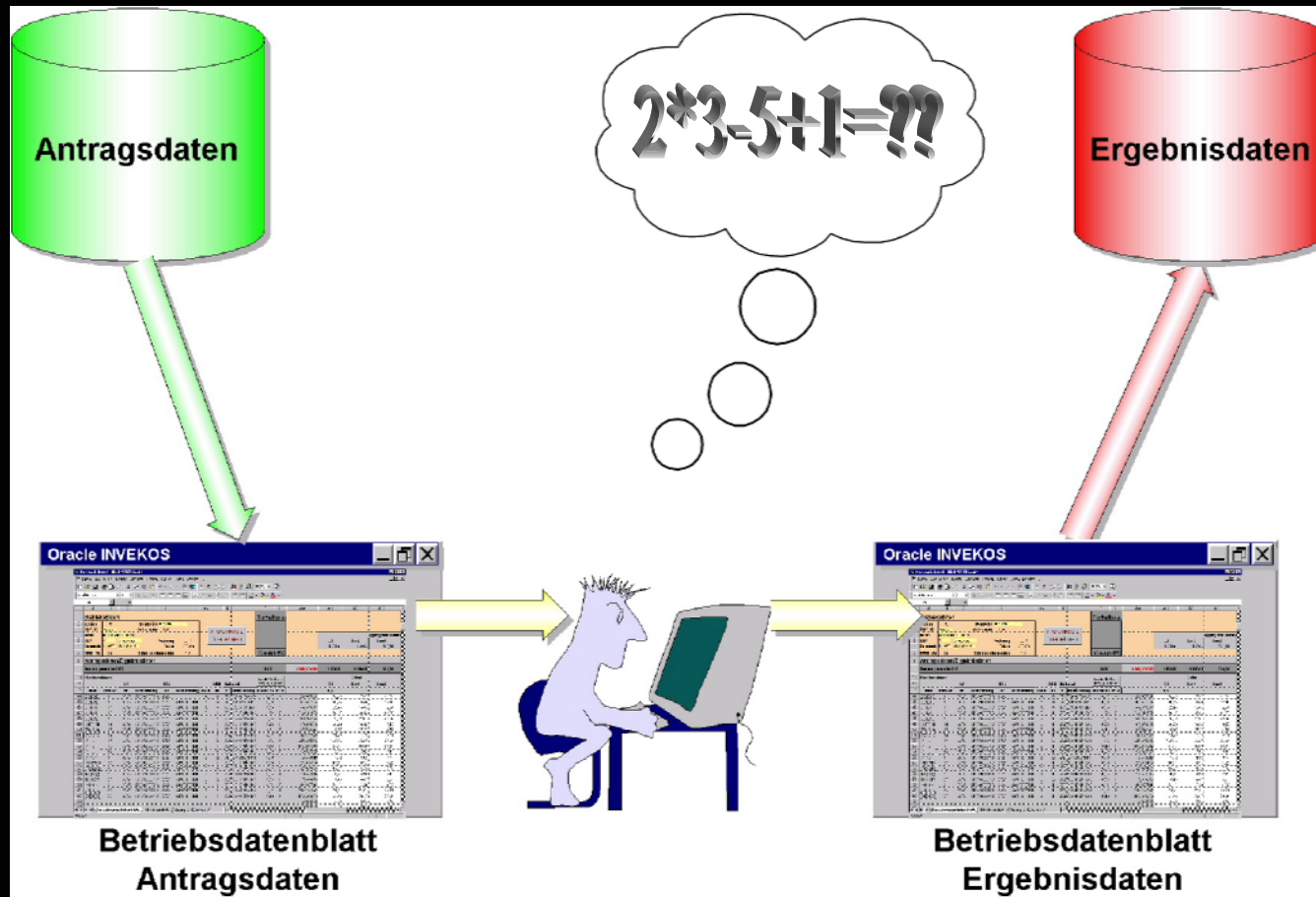


- **Project Start 1.6.1995**
- **37 Manyears**



Quality Control

Farm Datasheet



Testmanager



The image displays four screenshots of the Testmanager application interface, arranged in a 2x2 grid. Each screenshot shows a different configuration screen:

- Top Left: Maintain Methods** - Shows a form for defining a test method. It includes fields for Name, Instance name, and Description. A large text area contains the test script, which includes SQL queries and PL/SQL code. Below the script are checkboxes for 'Use parameter' and 'Use instance'.
- Top Right: Maintain Instances** - Shows a form for defining test instances. It includes a list of instances with columns for Name, Run, Show Differences, and Type. A 'Run' button is visible.
- Bottom Left: Maintain Collections** - Shows a form for defining test collections. It includes a list of instances and a 'Run' button. The 'Run' button is highlighted in red.
- Bottom Right: Instance Differences** - Shows a table with columns for Instance, Run, and Differences. The table contains several rows of data, with some cells highlighted in red.

HTML - Documentation



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ÖPUL MFA 2000

Diagramme

- [Gesamtablauf](#)
- [Produktstrukturplan](#)
- [Maßnahmen](#)
- Checkliste

Dokumente

- [Pflichtenheft](#)
- Checkliste

Pflege ökologisch wertvoller Flächen

Konfiguration

Plausiprüfung

Berechnung

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“Win-Win” - Situation

Agricultural Payments in Austria

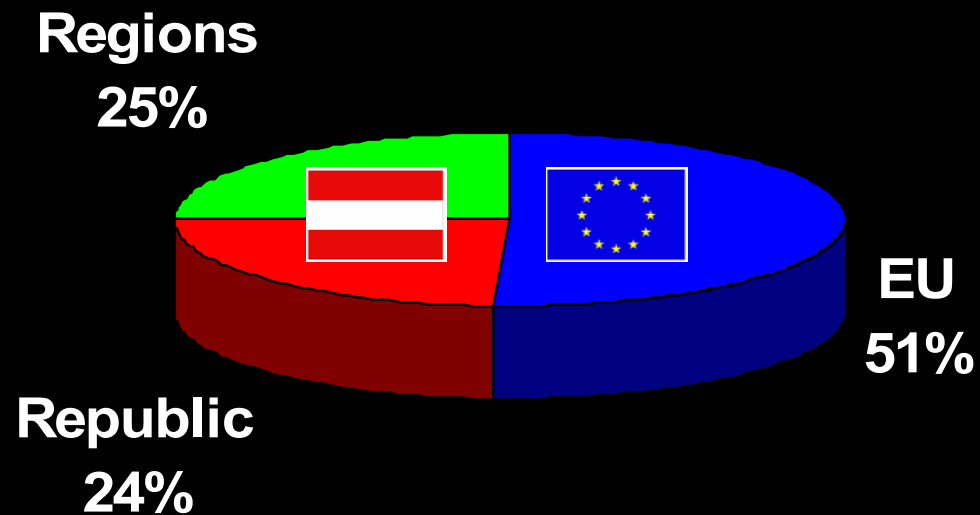


~ 1,9 Billions € / Year

Agricultural Payments in Austria



Distribution Of Payments

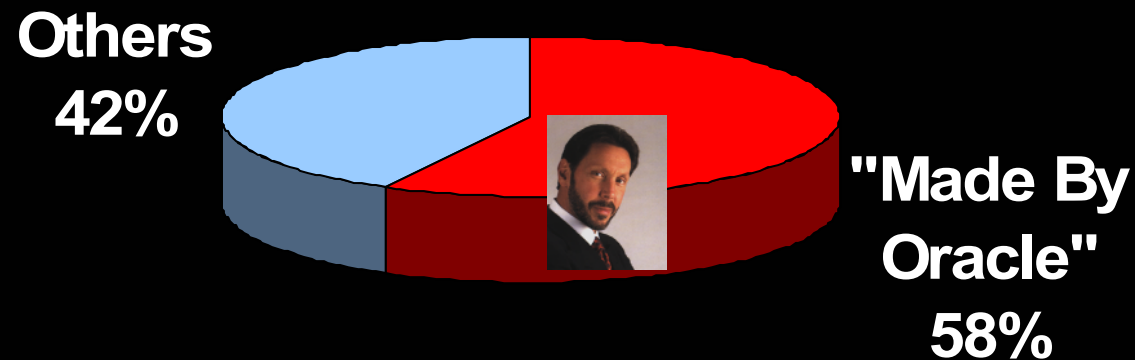


Quelle: Grüner Bericht 1999

Agricultural Payments in Austria



Agricultural Payments 2000
Total Ammount = 24,7 Billions
ATS



Infoville - Valencia, Spain

"Oracle technologies are crucial as a platform to develop the applications that allows us to create Infoville as a flexible Smart Community model that is truly scaleable, enabling fast and efficient roll out in cities of different sizes with varying requirements."

- Mr Escuin, CEO, TISSAT.

Oracle Solution:

Oracle Internet Platform

Jserver

I-Messaging

I-Directory



- **250+ Citizens Services Online**
- **True Multichannel**
- **Avr. Access time/day = 49 min**
- **Personalized content**
- **50.000+ users**

Infoville is a 'Smart Community' project serving the Valencia region of Spain

Copenhagen County – Hospitals

**“The new web-based interface in Oracle Applications is a blessing for the 3,000 people who use our new procurement system. ” -Jette Sylow Rasmussen, IT-planner
Copenhagen Country**

Oracle Solution:

Oracle Internet Platform

Oracle 9i

Oracle 9iAS

Oracle Financials

Oracle iProcurement



- **1,500 purchasers**
- **Ease of use**
- **Improved Financial Planning**
- **Full integration to Accounting**
- **>600,000 orders/year**

Human resources have effectively been released from mundane, repetitive tasks to more investigative and innovative projects such as overcoming tax evasion

Estonia, Parking fee thru Mobile

Mobile parking income grew to 12 percent of the city's total parking revenue immediately after the three-month testing period. The technology is a big improvement over previous systems that relied on tickets and cash machines

Oracle Solution:
Oracle Internet Platform
Oracle 9i



- **Estonian cities of Tallinn, Tartu, Pärnu, and Kuressaare currently pay for their parking over a mobile phone**
- **An efficient payment method**
- **Easier car inspection**
- **Lower running costs, and increased revenue**

The city of Tallinn has virtually eliminated the debt collection risks and administrative costs inherent in conventional parking systems

Hungarian Government

The Hungarian Ministry of the Interior used Oracle9i Real Application Clusters, to power its vote tabulating system used in the recent 2002 elections in Hungary to help ensure secure and reliable processing of large volumes of data

Oracle Solution:

Oracle Internet Platform

Oracle 9i

Oracle 9iAS

Oracle 9i RAC



- **2,000 PCs – 35,000 Voting Centers & 5.6 M voting data sheets in less than 4 hours**
- **Clustering**
- **Fault tolerant and Disaster Recovery Management**

The first application of clustering technology by the Central Data Processing, Registration and Election of the Hungarian Ministry of the Interior



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