



# Izaro APS

Production Advanced Planning&Scheduling.

## Leading IT

Providing ERP solutions for  
innovation in management.



OurTeam:

**100 people,**

Highly specialized in R+D+i

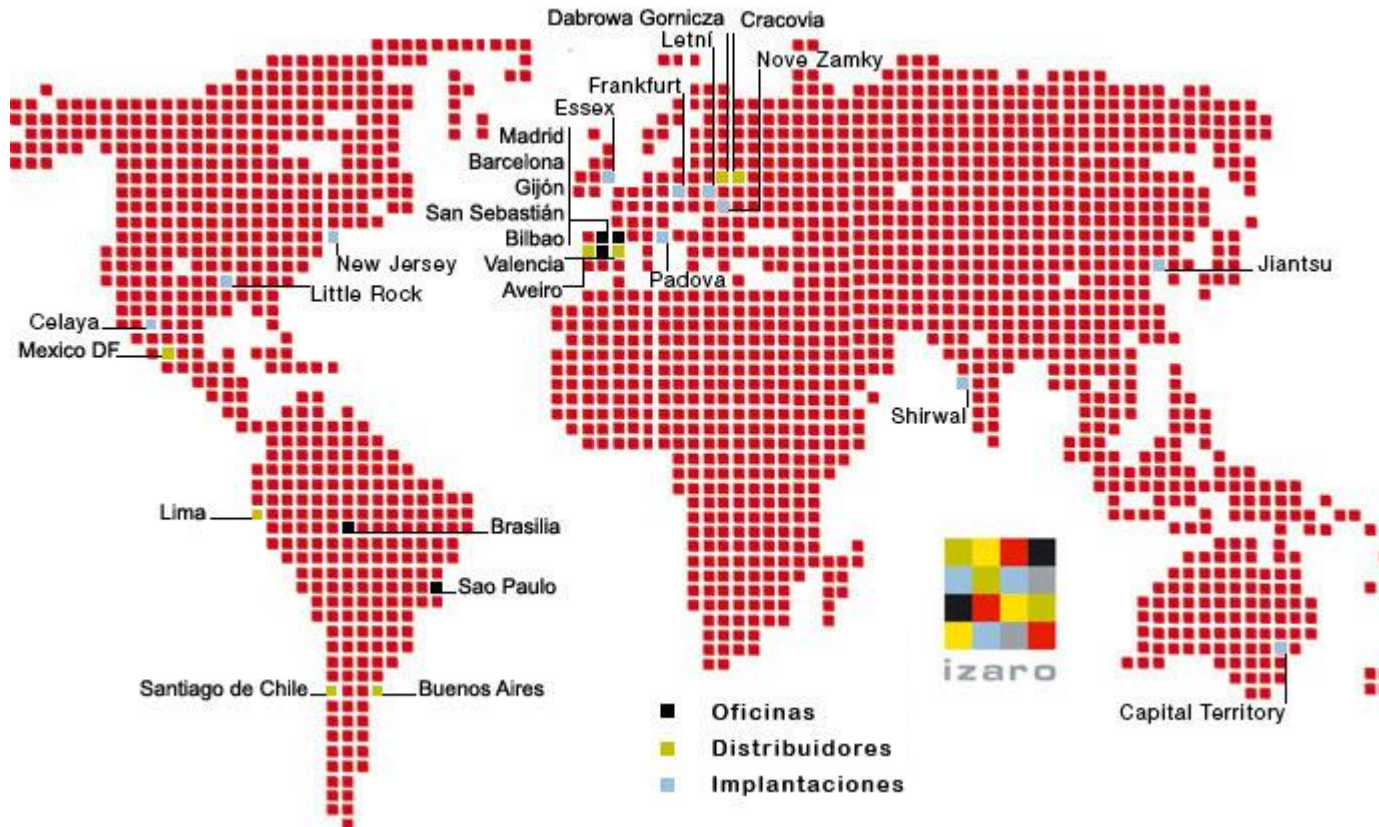


Headquarter in **San Sebastián.**

Branches in **Madrid, Barcelona, Gijón, Bilbao, Sao Paulo and Brasilia.**

Distributors in **España, Europa y Latino América.**

## International DNA



## Usual customers:

**Industrial, distribution and service companies with turnover between 3 & 100 M€.**

We have customers in France, Czech republic, USA, Mexico, Italy, China, Australia, Poland,...

# Business

# Suite



www.grupo168.com

### TSA

Technical Service Assistance

### Mobile

SAT Mobile

### POS

Point of Sale

### B2P

Offers and subcontractors

### CMS

Cash Management System

### Finances

- General Accounting
- Analytic Accounting
- Payments and Collections
- Assets

### Logistics

- Warehouse Management
- Logistics and sales
- Purchases
- EDI-GNE

### WMS

Warehouse Management System

### CRM

Customer Relationship Management

### B2B

Customers and Reps.

### DMS

Gestión Documental

### BPM

Gestión de Procesos de Negocio

### Business Intelligence

Análisis de Información

### B2E

Employee Portal

### HR

- Personnel and Payroll
- Time and attendance

### Manufacturing

- Engineering
- Production
- MRP
- Quality

### MES

Data Collection

### APS

Production Planning

### MMS

Plant Maintenance

### Web access

Customers  
Reps  
Branches  
Employees

### Prevention

Labour Risk Management

### ADS

Product Configurator

### EPM

Project Management

### SPC

Statistic Process Control

### MMS

MMS Mobile

## Production

**Advanced Planning & Scheduling**

**¿What should happen in my shop floor?**

**MRP solutions** plan production with  
**2 deficiencies:**

1

Infinite capacity



2

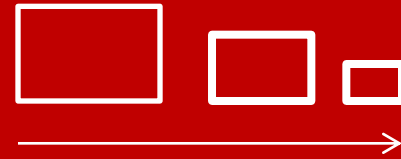
In time buckets





## Need to manufacture:

- Smaller lots



- Shorter delivery dates



- Higher range/ customization



- ❑ **Repetitive** or **Discrete** manufacture
- ❑ Manufacturing processes based on **independent resources** (vs. production lines): CNC, milling, moulds, ...



- Autopart suppliers (Tier I,II) and Aerospace
- Plastic Products
- Metal Products
- Electronic
- Mass consumption
- Glass, Ceramic and others
- Wood & Furniture
- ...

## Izaro APS **secuencias** operations

according to **optimization criteria** to

maximize the planning goals.



## Multicriteria Optimization

- Minimize Setup Time (Change-Over)
- Minimize Waiting Time
- Minimize Average Delay
- Minimize Load Level
- Minimize Maximum Delay
- Minimize Deviation Against Delivery Date
- Maximize Priorities
- Maximize Turnover
- Maximize Energy Efficiency



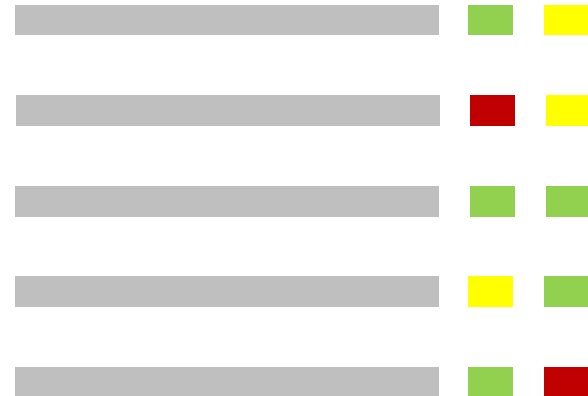
Secuenciar con múltiples **restricciones** y **especificaciones productivas**, tales como:



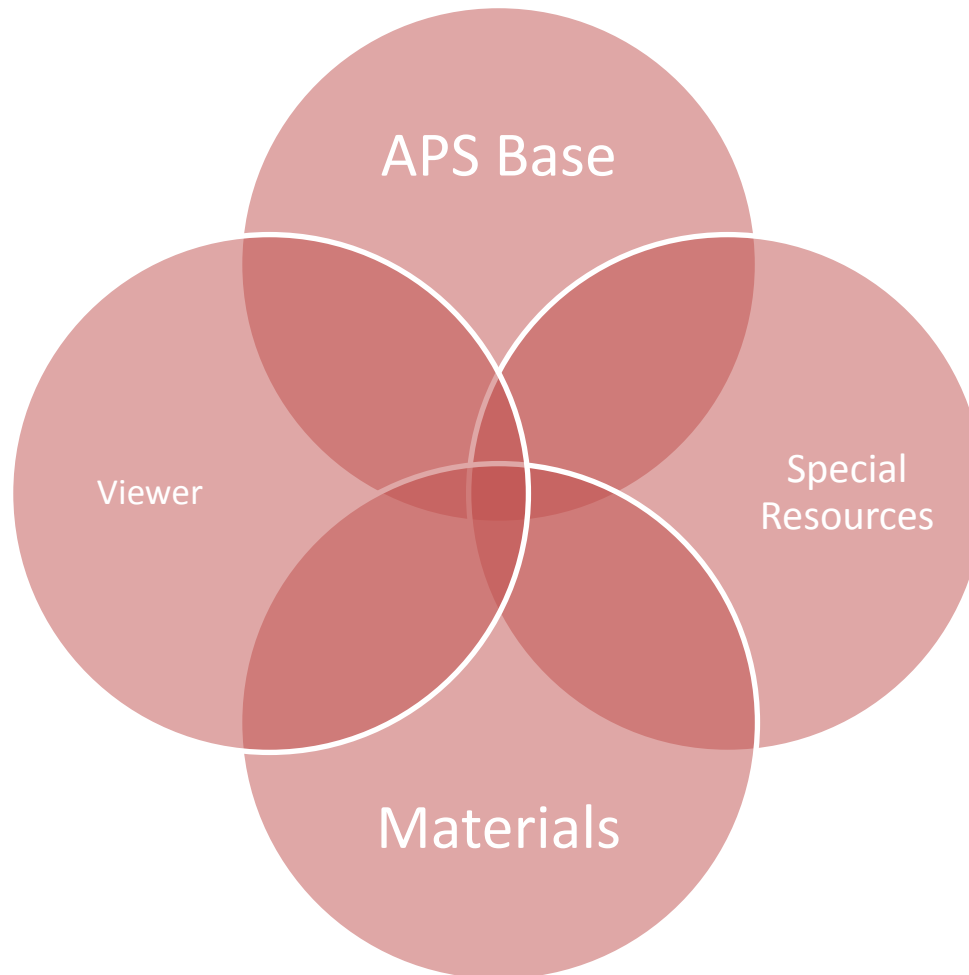
Para adaptarse a los **requerimientos** de las empresas industriales:

## KPIs:

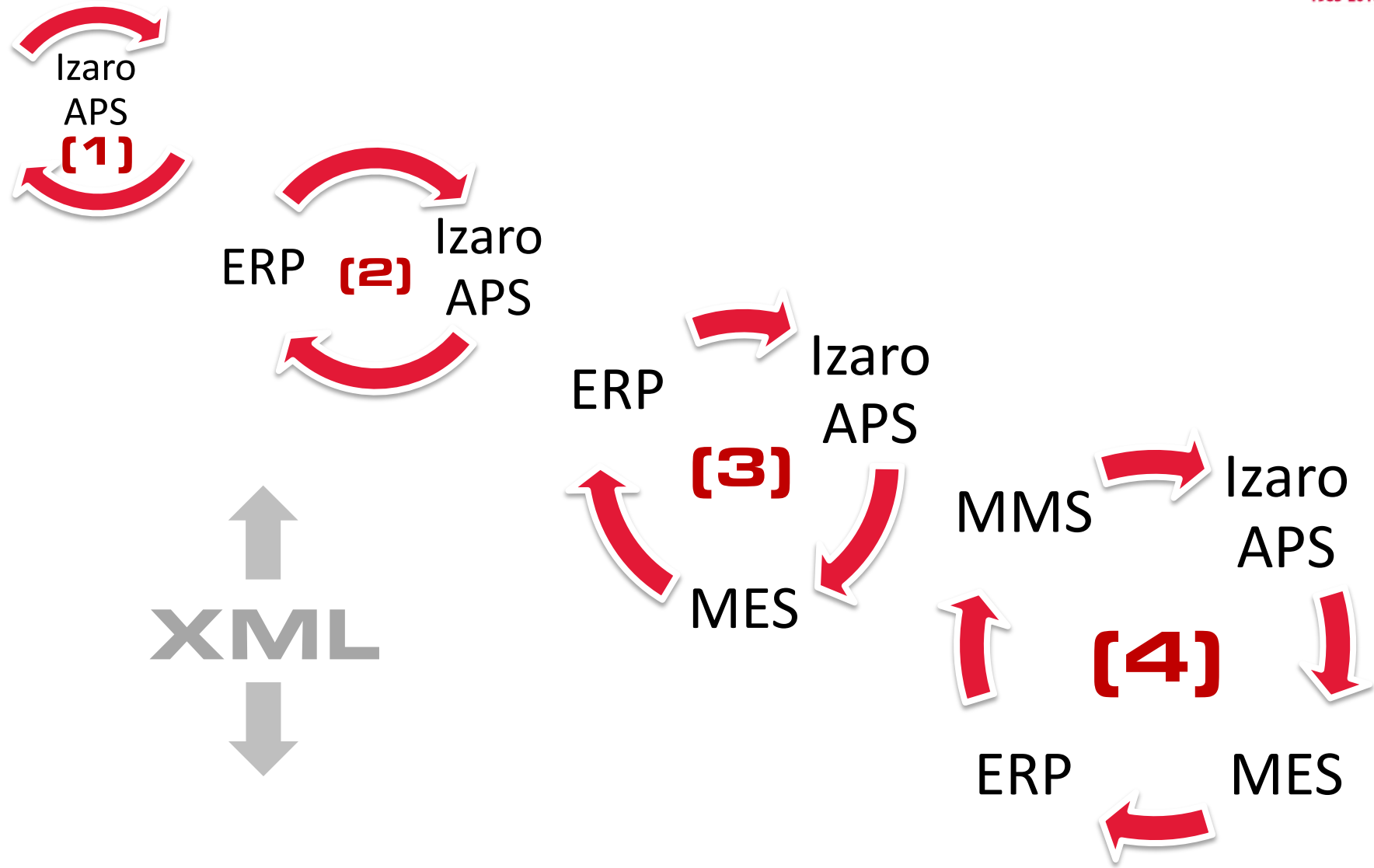
- **Measurable** planning result
- **Comparison** between different plannings
  - Global
  - Detail
- “ what-if ” scenarios



# Independent modules



# Izaro APS: Scenarios





“ *The rol of a planner must change from being*  
***reactive*** *(solve problems) to being*  
***proactive*** *(find efficiencies).* ”

[www.izaroaps.com](http://www.izaroaps.com)

[www.grupoi68.com](http://www.grupoi68.com)





Passion for innovation.

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