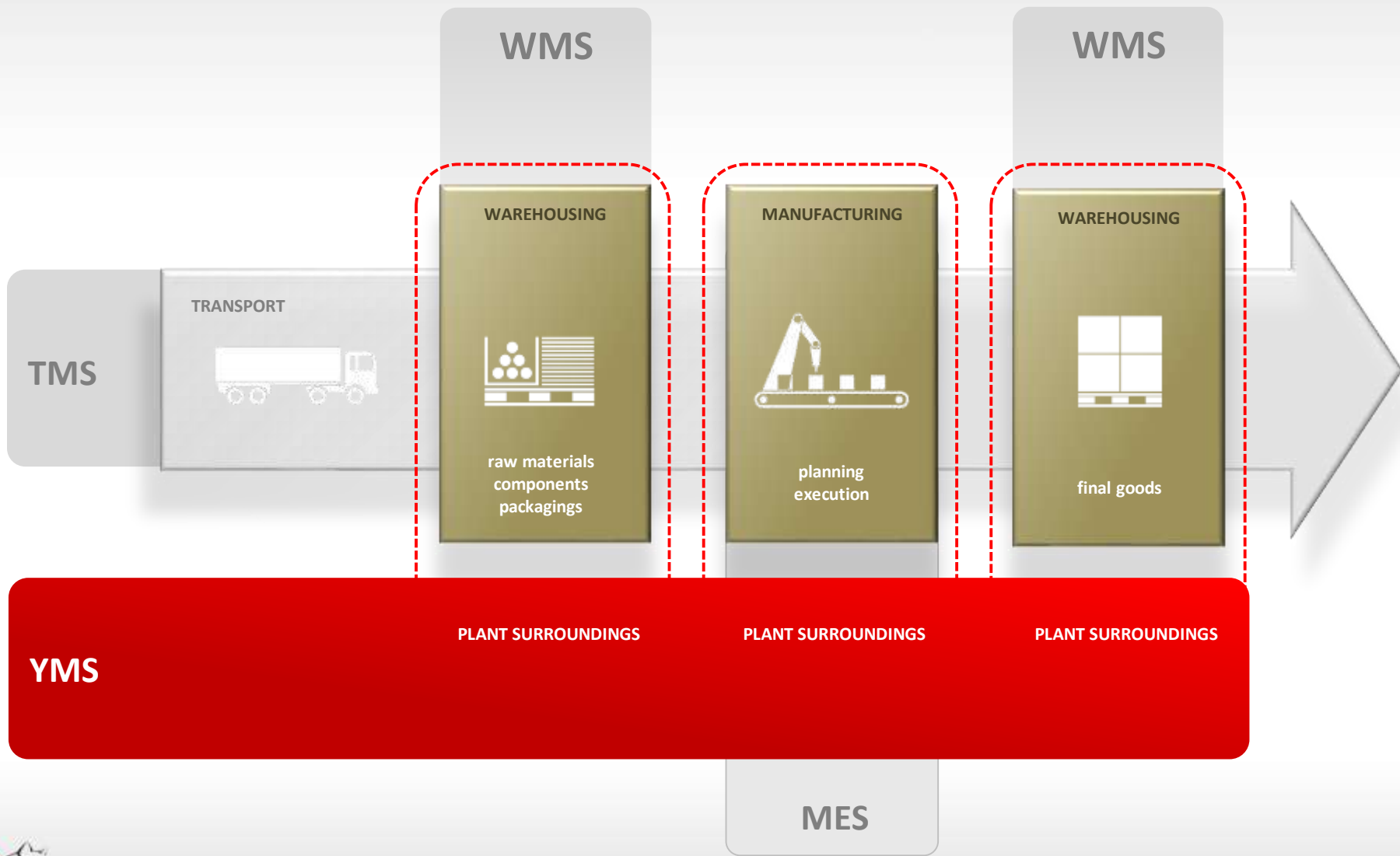






# QGUAR YMS according SCE approach



## YMS

- ✓ manages the movement of transport means, visitors and loading
- ✓ controls the occupancy of parking places, the queue of trucks and sends calls to enter the facility
- ✓ ensures control over work in the yard in one or more locations

Order of service management

Automatic location assignment

Service timetable

Service buffering

Pedestrian traffic management

Inbound/outbound registry book

Controll system

Resources identification

Alerts

Car parks management

Automatic notification system

Defining of service rules

Analysis of processes

Punctuality controll

Visit templates library

Visit's advises

## Yard topology:

- ✓ locations
- ✓ yards
- ✓ areas (ea. warehouses)
- ✓ places (es. dock)

## Master data:

- ✓ companies
- ✓ means of transport
- ✓ drivers/guests
- ✓ identifiers

## Yard topology:

- ✓ **Visit**  
(type, time, place, guests, plan – task list)
- ✓ **Task**  
(type, time, place, quests)
- ✓ **Traffic**  
(guests, from location – to location)



## Scales

Weight during arrival and departure,  
control over weight difference



## Monitors

Collective data about visit queues  
And assigned places



## Barriers

Automatic control over barriers during  
arrival and departure



## RFID

Registering of current location  
and status



## Information boards

Calls, places, mass, etc.



## Barcodes

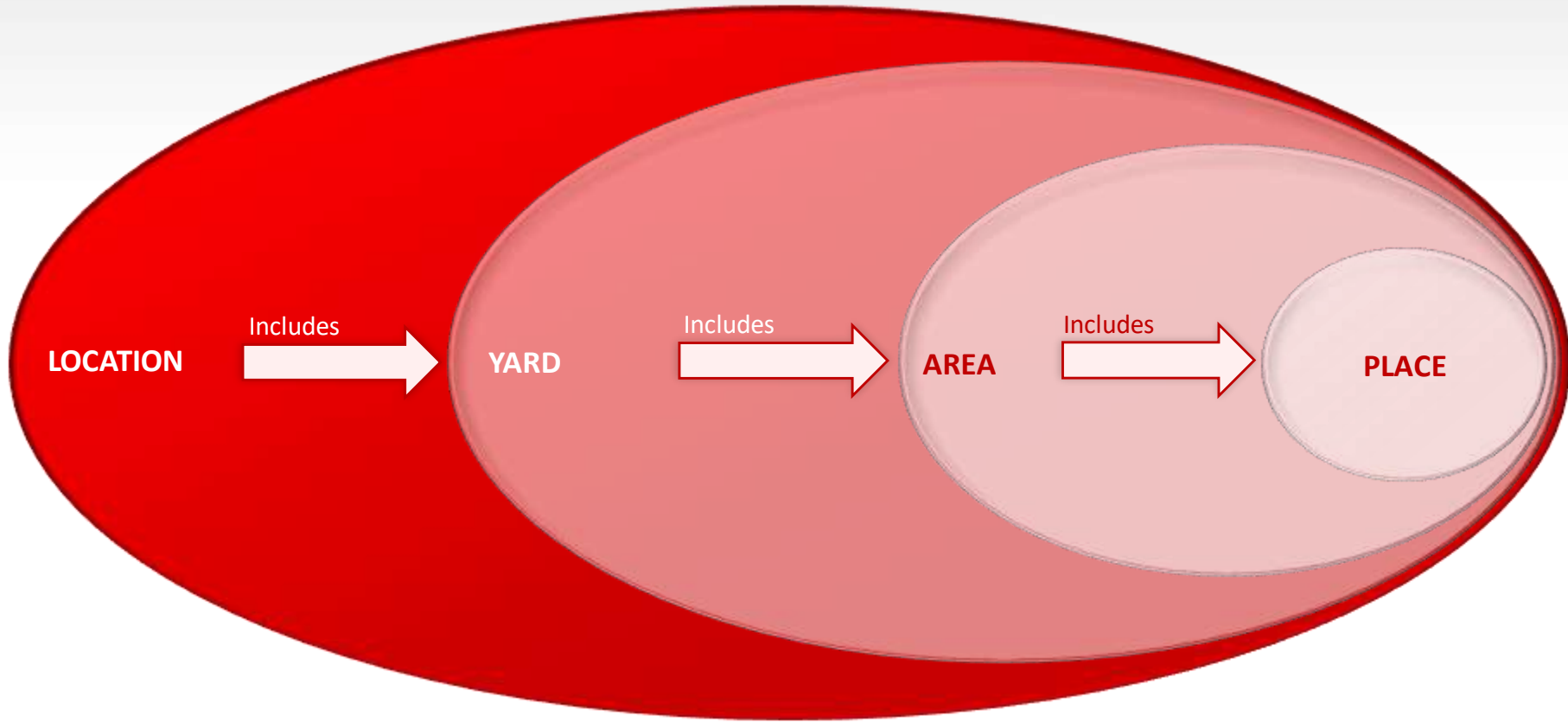
Registering of current location  
and status



## SMS, E-mail

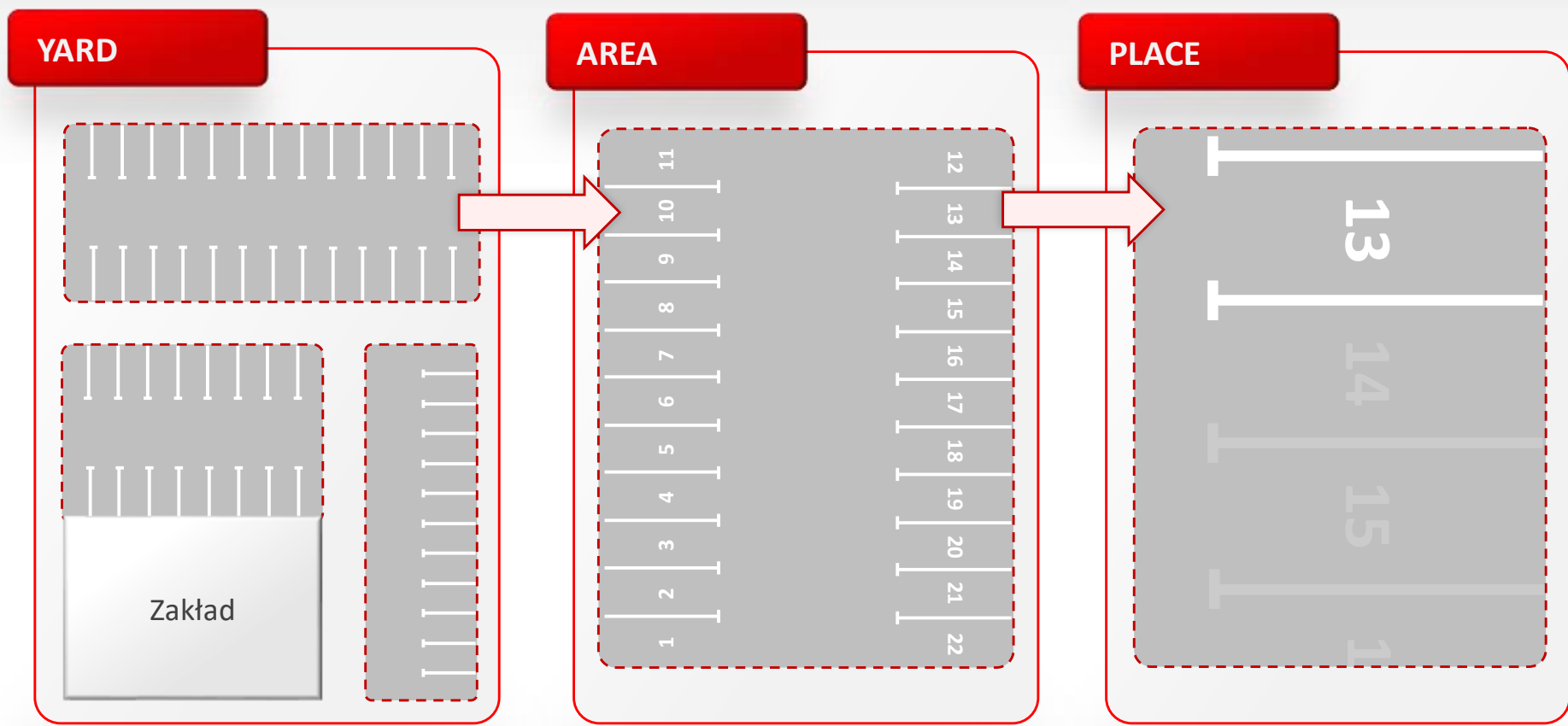
Notification for drivers about calls and places

# Model of yard management





# Model of yard management



# Yard explorer

The screenshot displays the Qguar YMS software interface. The main window is titled "Yard explorer" and shows a tree view of the facility layout. The "Trucks" tab is active, and an "Edit - trucks" dialog box is open, allowing for the configuration of a specific truck.

**Yard explorer Tree View:**

- Visitors
- Transport means
- Yards
  - WS3
    - LODGE
    - OFFICE
    - PARKING INS. CAR
      - PARKING INS. CARS
    - PARKING INS. TRUCK
    - PARKING OUTS.
    - WAREHOUSE MC
      - BUFFER SPACE
      - MC/DOCK IN 01
      - MC/DOCK IN 02
      - MC/DOCK OUT 01
      - MC/DOCK OUT 02
    - WAREHOUSE MU
      - MU/DOCK IN/OUT 01
      - MU/DOCK IN/OUT 02
      - MU/DOCK IN/OUT 03
      - MU/DOCK IN/OUT 04
- Visits

**Edit - trucks Dialog Box:**

- Truck Administration**
- Truck number: KRK 1002
- Truck name: Citroen Berlingo
- Truck type: OS
- Company identifier: QUANTUM
- Phone number: [Empty]
- Number of seals: [Empty]
- Loading door height: [Empty]
- Driver: [Empty]
- Location No: PARKING INS. CARS
- Buttons: Save, Cancel

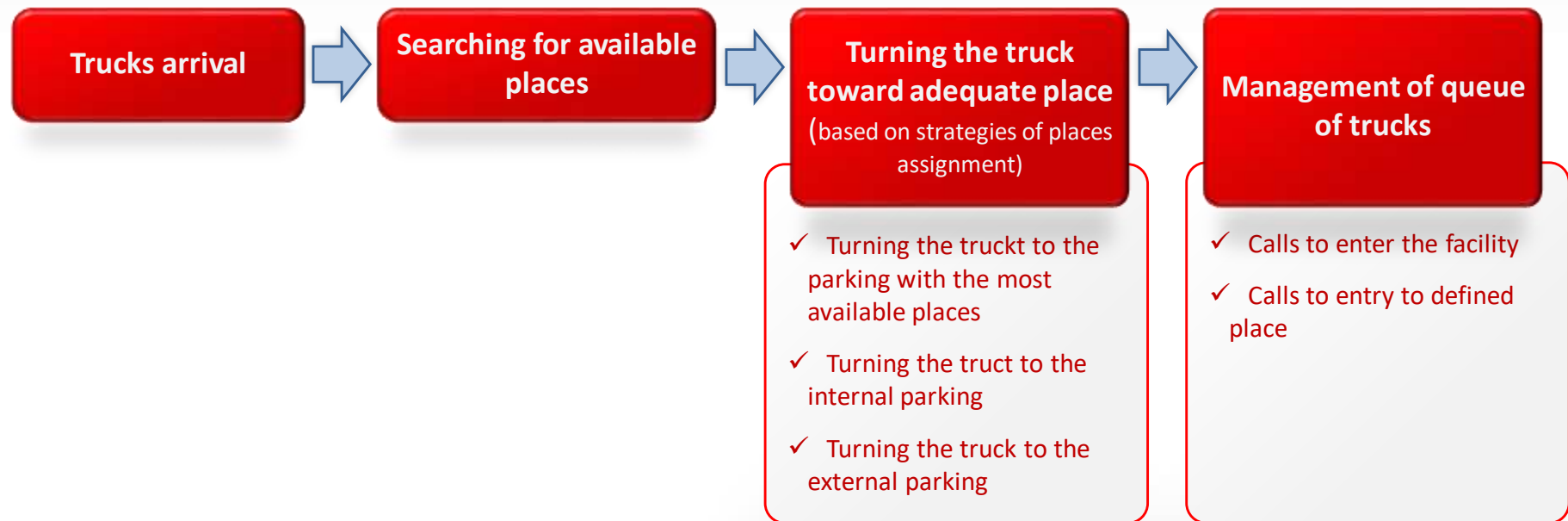
**Table:**

| Location No       | Status  |
|-------------------|---------|
| PARKING INS. CARS | Present |

**Footer:**

ym@safena  
on: vmbrazilkkjp  
: 1.2.050.4476  
ma 08: 1.2.050  
es 08: 3.0.290

# Block diagram of parking places management





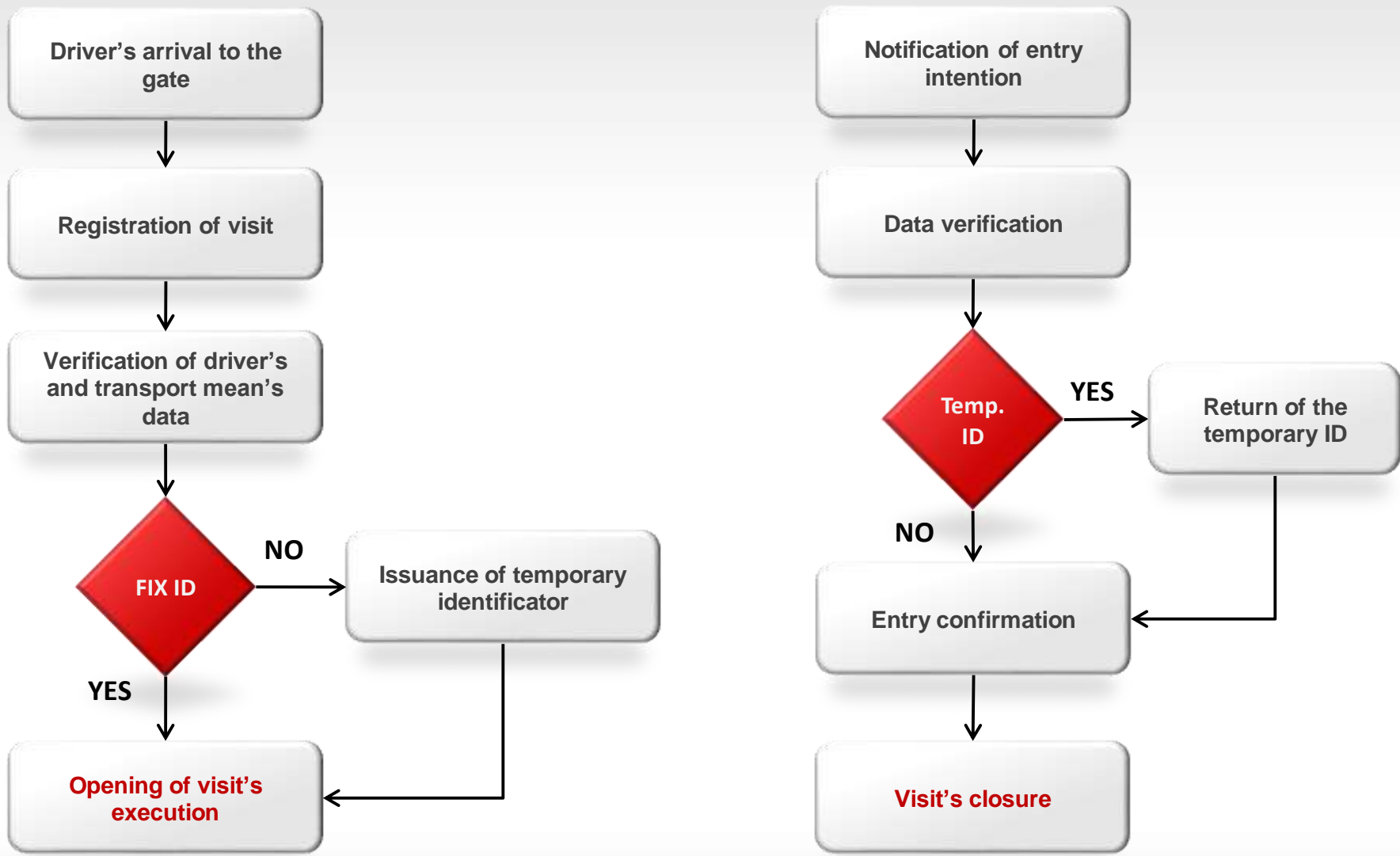
Ordering of information about statuses of resources and processes

Identification of guests and verification of purposes of their visits

Record and verification of entrances and departures

Flow management within premises

# Block diagram about gate keeper management



# Gate keeper management – inbound and outbound registry book

The screenshot shows a web browser window with the URL `qguar/yms/book_of_entrance_departures`. The application interface is titled "Book of entrances and departures" and features two tabs: "Entrance/Departure" (active) and "Administration".

**Filters:** Includes fields for "Creation date from:" and "License plate:".

**Pick a visit:** A section for selecting a visit with the following fields:

- Searching code: `VISIT-0000001/15`
- Gate: `L/IN-OUT` (selected) and `Lodge IN-OUT` (available)
- Identifier: (empty)
- Temporary absence:
- Truck passing:

**Visit data:** A section for entering visit details:

- Truck No: `KRK 1002`, Tractor No: (empty)
- Driver code: `AC`, Alex CAINE (selected)
- Cell No.: `23132132131231`, Guest position: (empty)
- Visit No: `VISIT-0000001/1`, Commodity movement (selected)
- Operation No: (empty)
- Information: (empty)
- Contact person: (empty)

**Porter notes:** (empty text area)

**Visitor photo:** (empty image placeholder)

**Table:** A table with 7 columns: Visit line type, Area, Location No, Planned date of start, Operation No, Information, Status.

| Visit line type | Area       | Location No | Planned date of start | Operation No | Information | Status |
|-----------------|------------|-------------|-----------------------|--------------|-------------|--------|
| Loading         | WAREHOU... |             | 2015-04-10 00:23      |              |             | Active |

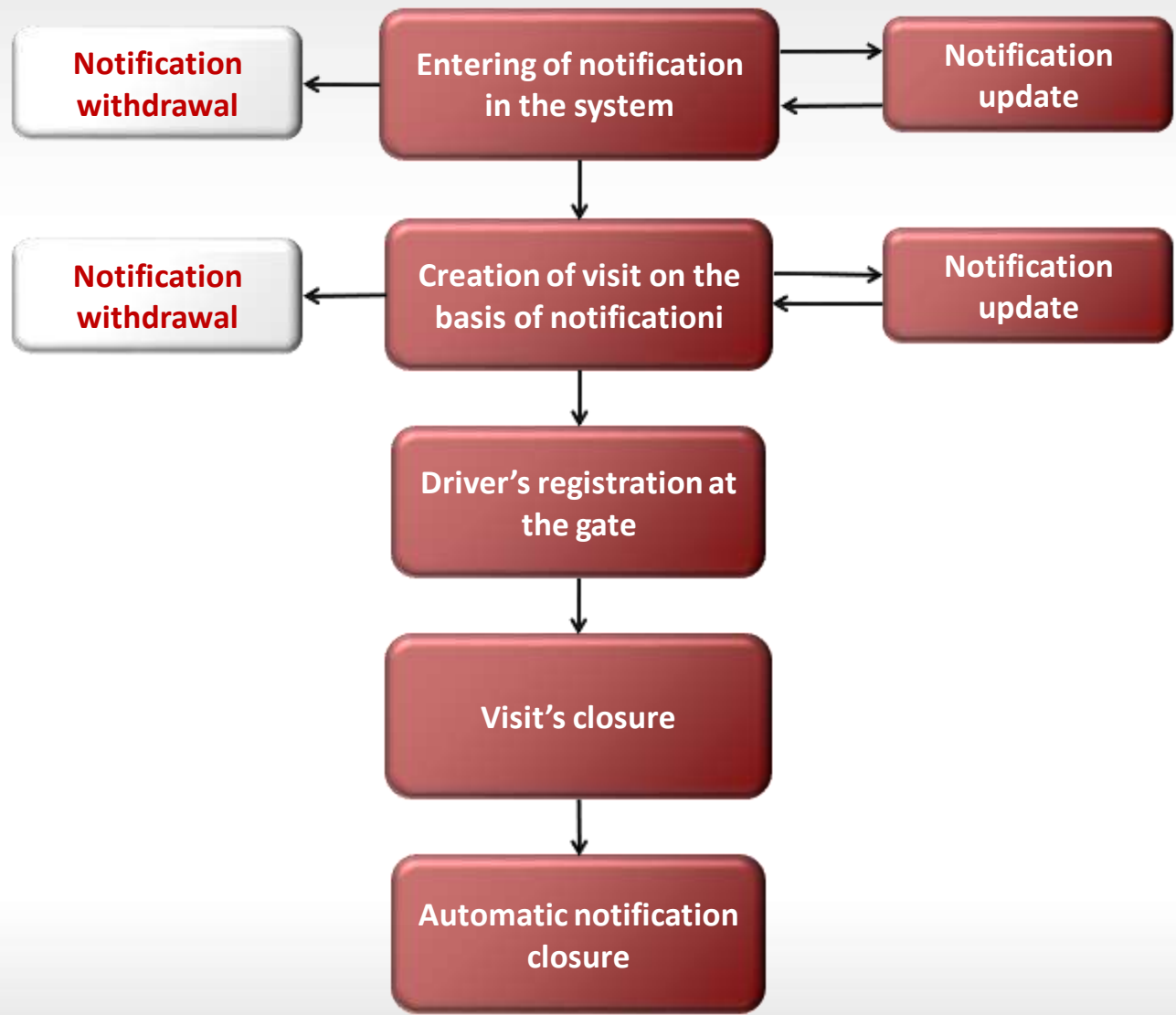
**System messages:** A section for displaying messages, currently showing `Waiting on placePARKING INS. CARS`.

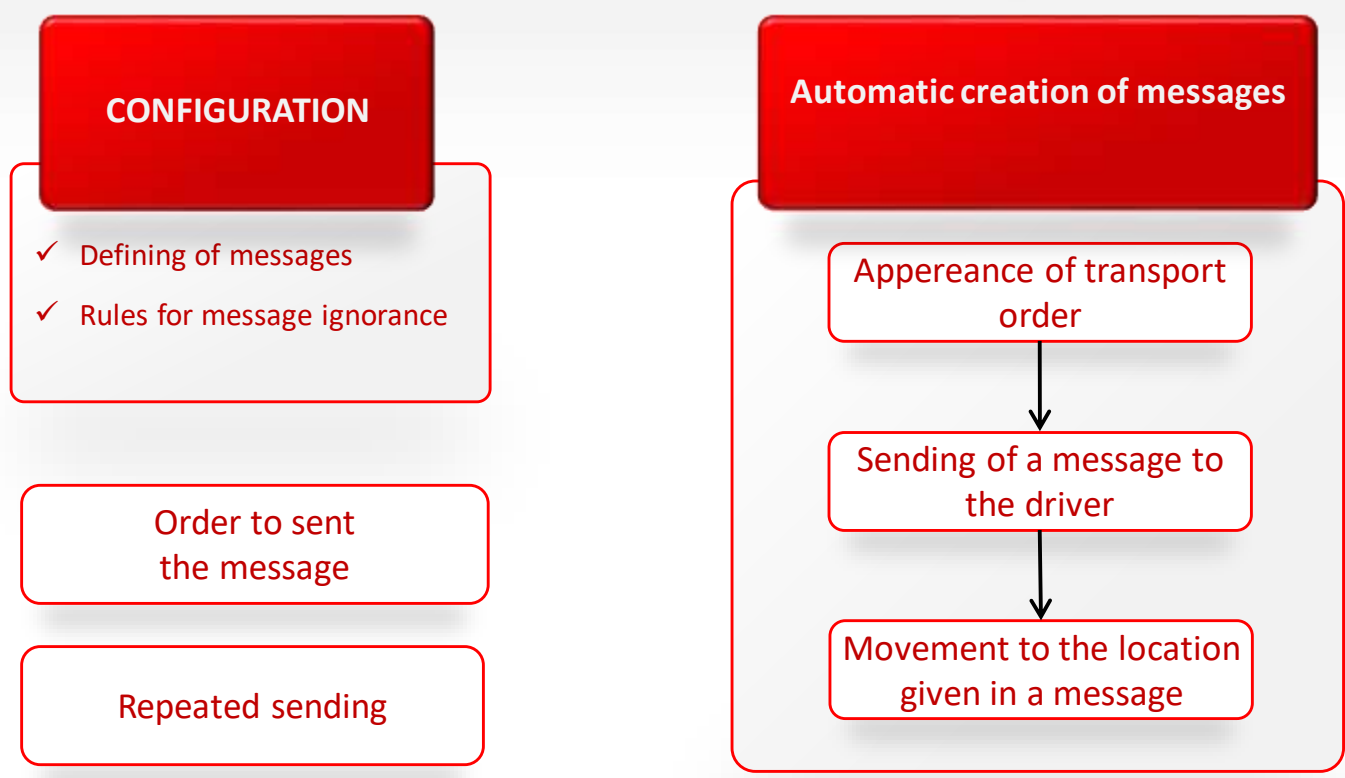
**Buttons:** A row of buttons at the bottom: Edit visit, New Visit, Finishing visit task, Edit - ending visit tasks, Open visit realization, Entrance, Departure, Visit card, and Cancel.

**Right sidebar:** A vertical sidebar with a search field and a list of entries, each with a status indicator.

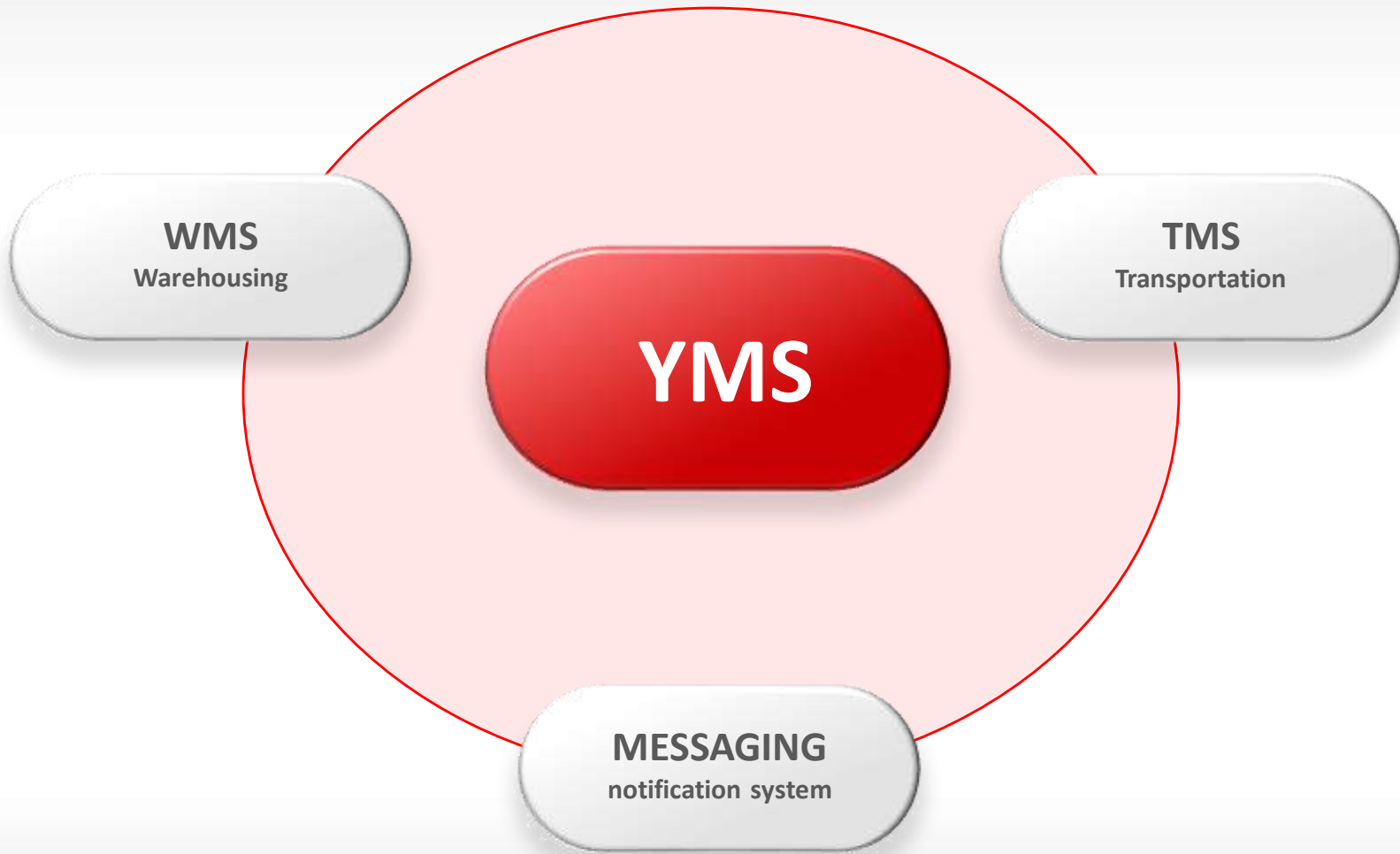
**Bottom bar:** Windows taskbar showing the Start button and several application icons, including "Book of e...".

# Block diagram about deliveries notification

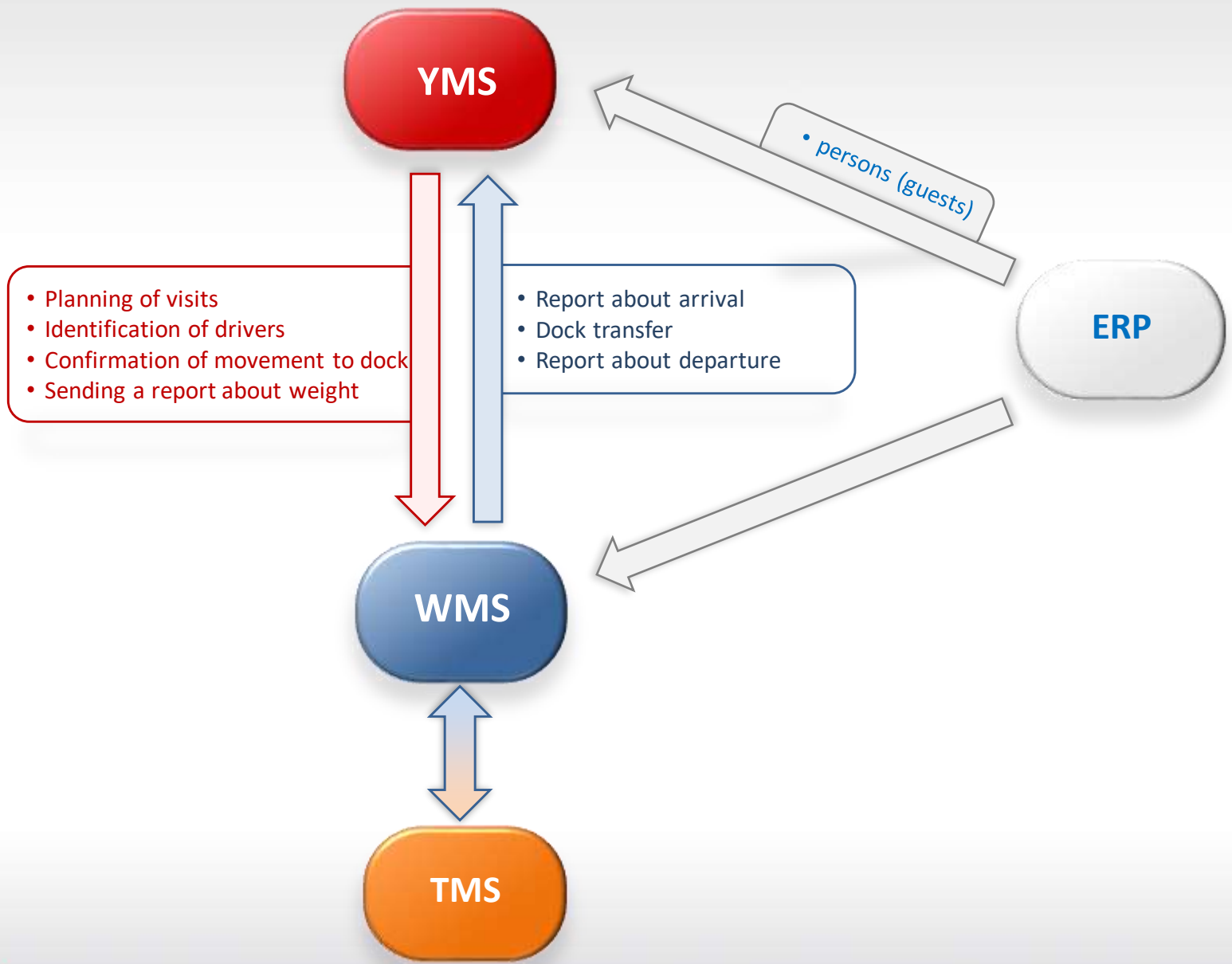








# Information exchange between Qguar YMS and other solutions



## ✓ **Standard interface:**

- **ASCII** text files
- **XML** text files
- Direct database link
- 7 standard communicates for information exchange with ERP

## ✓ **Dedicated interfaces:**

- Utilization of application capability (eg. remote procedure call)
- Electronic telegrams (winsocket, rs232)
- Number and contents of communicates depends on client



## Data about visit and tasks

Specification of information about visit and tasks connected (for visits in status: „in realisation” and „finished”)

## Time of tasks execution

Specification of information about planned and real times of tasks completion

## Guests on the yard

Specification of information about guests already being present on the yard. (visit number, status, task number and its status, information where the guest stays)

## Time of logistic events

Specification of information about planned and real visit time

## Tasks in completion status

Specification of information about tasks being completed in the visits

## Timeliness of notifications

Specification of information about visit notifications, visit numbers, planned and real dates, drivers data, etc.

## System printouts (I-Net Crystal Clear)

- ✓ Documents
- ✓ Labels
- ✓ Current and statistics reports

Export of printout directly to the printer or with the view on the screen

Possibility to modify the existing printouts

Creation of own printouts by the client

## System printouts (Control queries)

Definition as a query in SQL

Fast speed of control query definition on condition of knowledge about DB structure

Definition of own filters

Effect of CQ:  
Classic table of Qguar system

Placing of own tables into menu

## Export of data to MS Excel

Export of any table available in the Qguar system

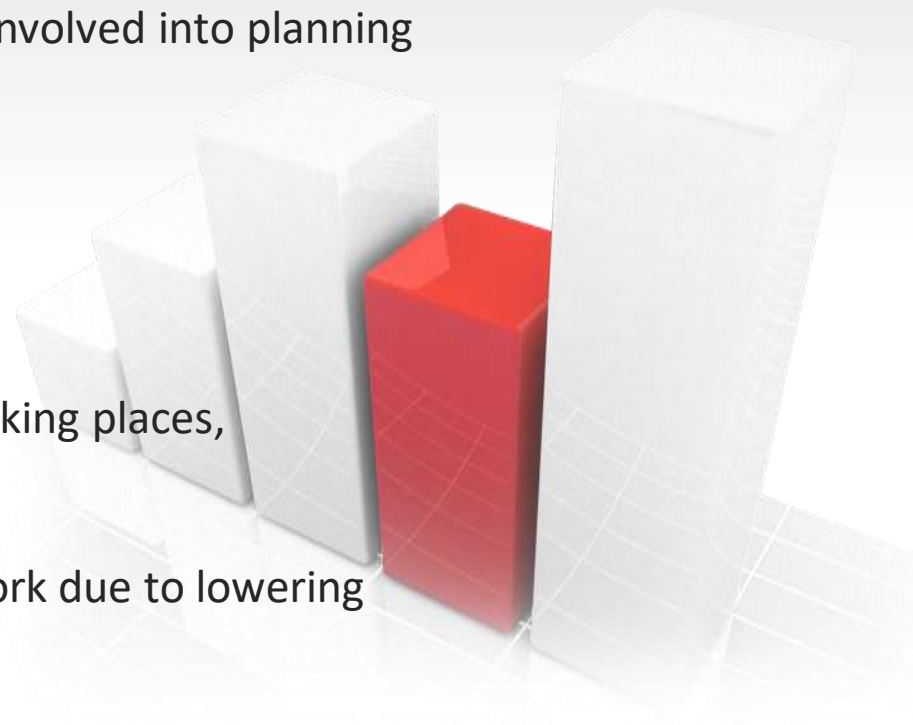
Definition of columns exported independently of columns visible

Further processing of data in MS Excel



- ✓ Average time of transport mean service
- ✓ Average time of loading/unloading
- ✓ Average time of waiting at the parking place, on the premises
- ✓ Level of utilisation of available places ( eg. docks )
- ✓ Offences committed on the premises
- ✓ Timeliness of driver's appearance in relation to notifications

- ✓ Lowering the time and number of people involved into planning the time, place and queue of services
- ✓ Improvement of service smoothness
- ✓ Improvement of warehouse efficiency
- ✓ Increase of resources utility (eg. docks, parking places, loading/unloading gates)
- ✓ Improvement of gate keepers quality of work due to lowering the number of mistakes
- ✓ Shorter time of tasks completion by drivers (automatic drivers messaging)



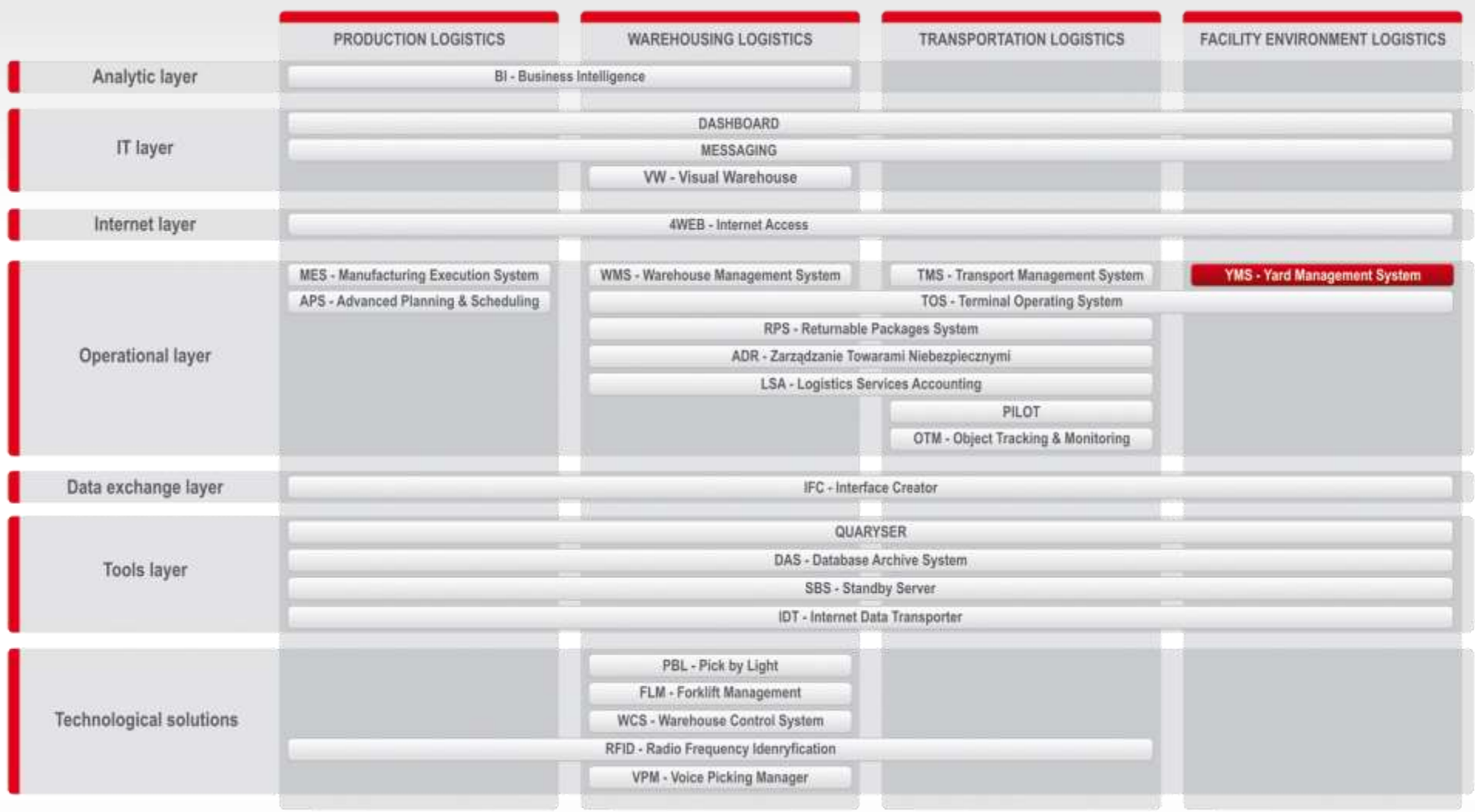
# Benefits from implementation of QGUAR YMS



- ✓ Ordering of information about statuses of resources and logistic processes.
- ✓ Support of gate-keepers in the process of drivers/guests identification
- ✓ Evidence and verification of arrivals and departures
- ✓ Management of movement on the premises
- ✓ Support of gate-keepers in managing of order of service
- ✓ Management of dock assignment
- ✓ Integration of logistic processes in the company
- ✓ Lowering number of contacts between gate-keeper and warehouse
- ✓ Improvement of warehouse performance
- ✓ Possibility of full visits history reconstruction
- ✓ Complete administrative and managing information about logistic processes.



# QGUAR YMS as one of the wide range of Quantum products





**Thank you for your  
attention**