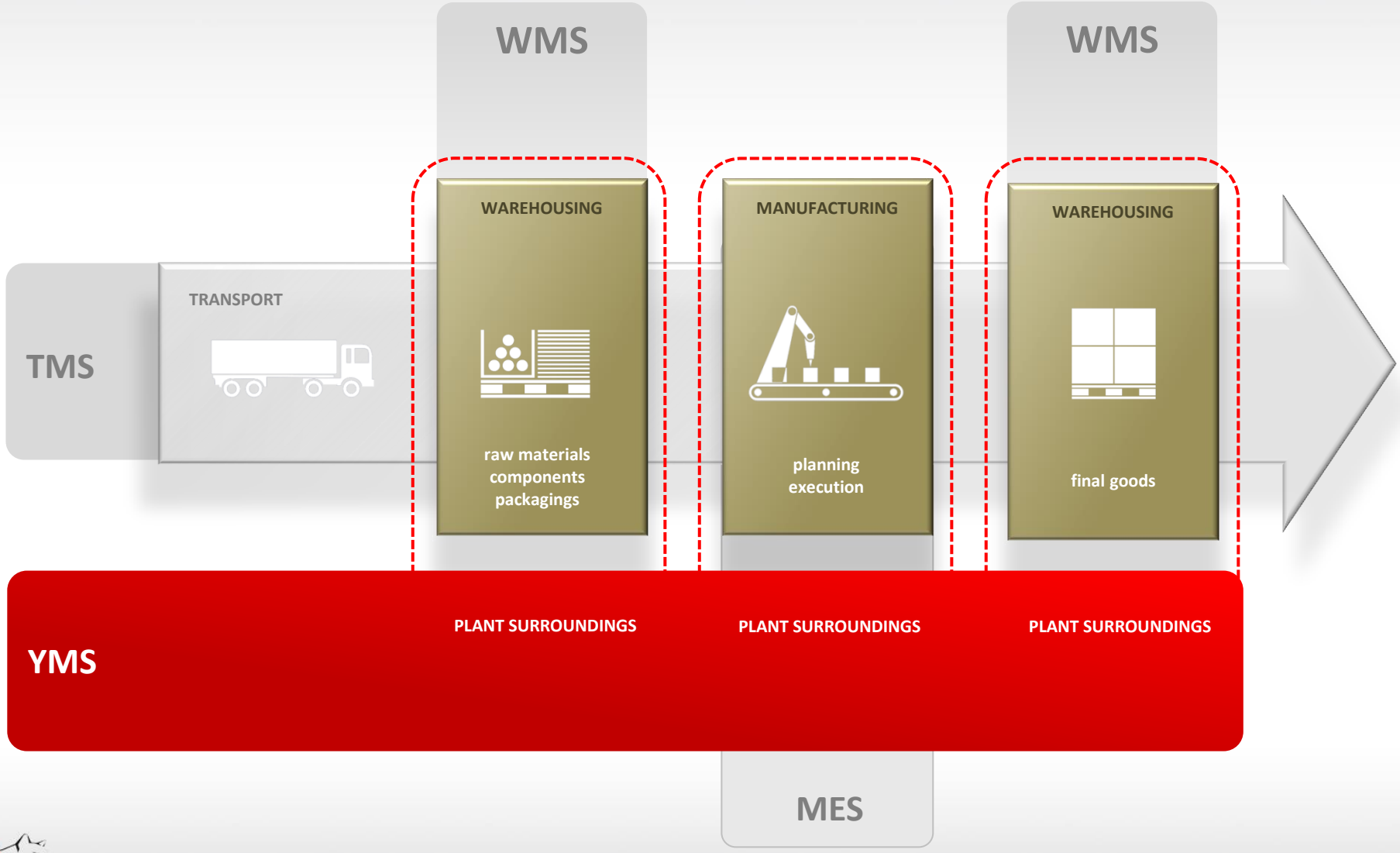
Qguar YMS

Yard Management System

QGUAR YMS – one of our many SCE solutions

Qguar YMS

QGUAR YMS according SCE approach



Qguar YMS

Processes in QGUAR YMS

YMS

- ✓ manages the movement of transport means, vistitors and loading
- ✓ controlls the occupancy of parking places, the queue of trucks and sends calls to enter the facility
- ✓ ensures controll 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 registy book	Controll system	Resources identification
Alerts	Car parks management	Automatic notification system	Definining of service rules
Analysis of processes	Punctuality controll	Visit templates library	Visit's advises

Qguar YMS

Basic objects in QGUAR YMS

Yard topology:

- ✓ locations
- ✓ yards
- ✓ areas (eg. warehouses)
- ✓ places (eg. dock)

Master data:

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

Process objects in QGUAR YMS

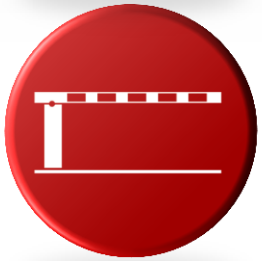
Yard topology:

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

Qguar YMS – supported technologies

Scales

Weight during arrival and departure, control over weight difference



Barriers

Automatic control over barriers during arrival and departure

Information boards

Calls, places, mass, etc.

SMS, E-mail

Notification for drivers about calls and places

Monitors

Collective data about visit queues And assigned places

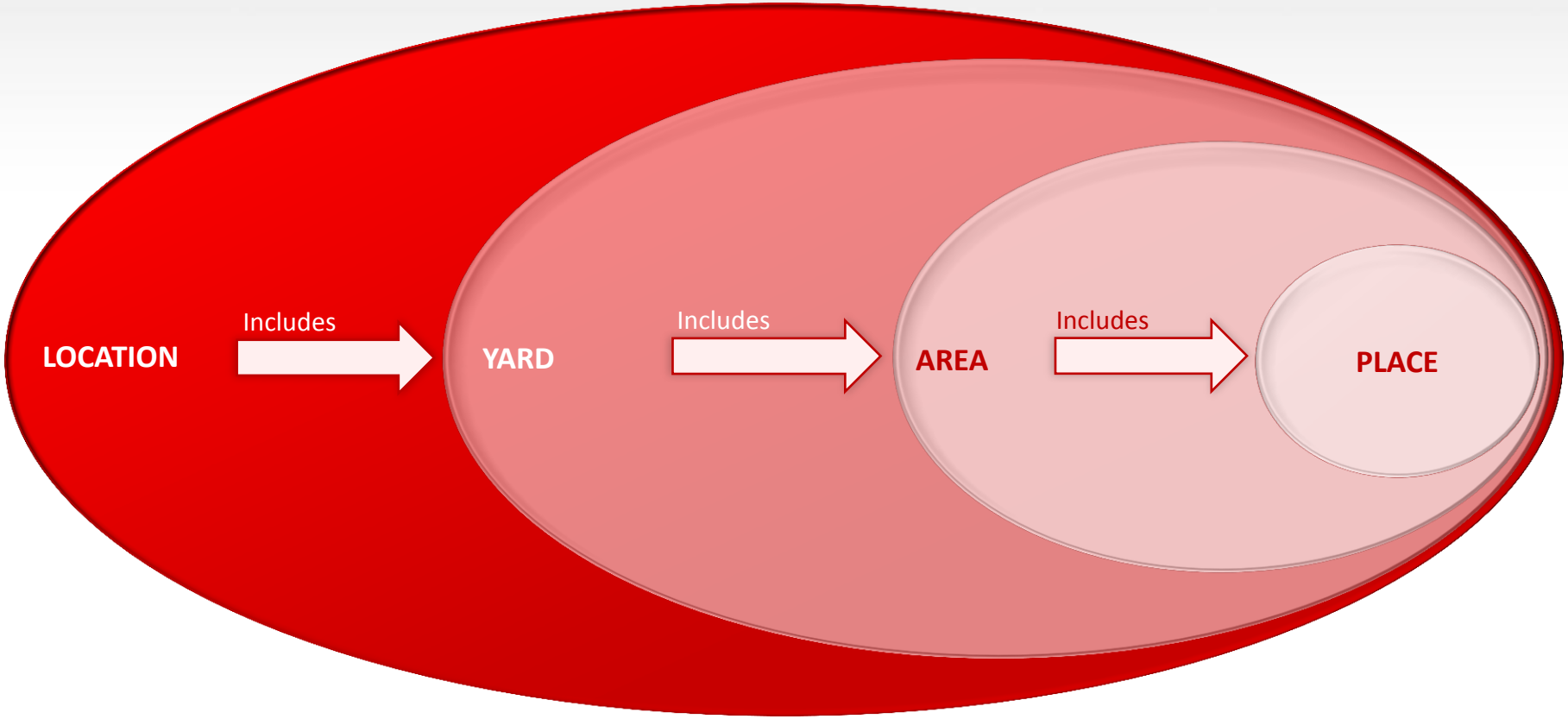
RFID

Registering of current location and status

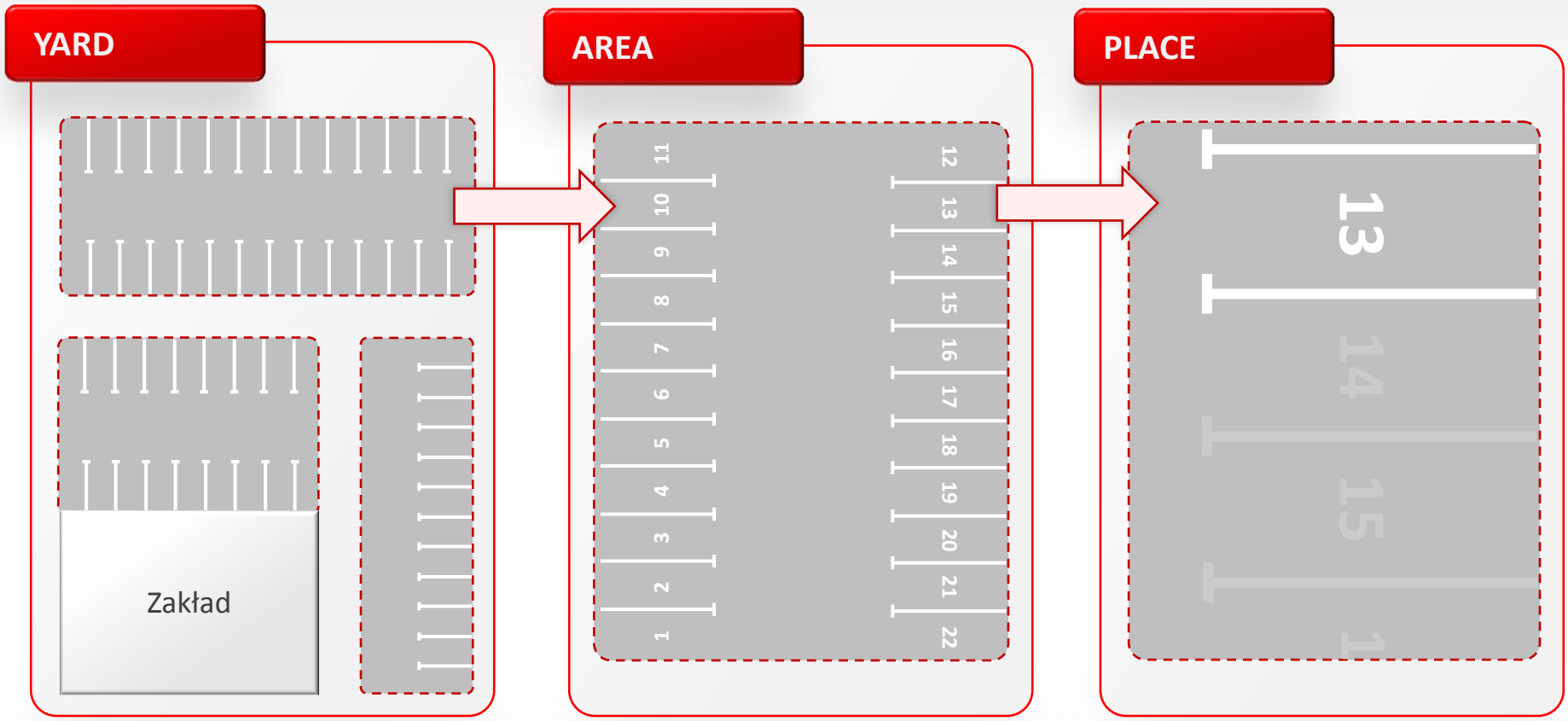
Barcodes

Registering of current location and status

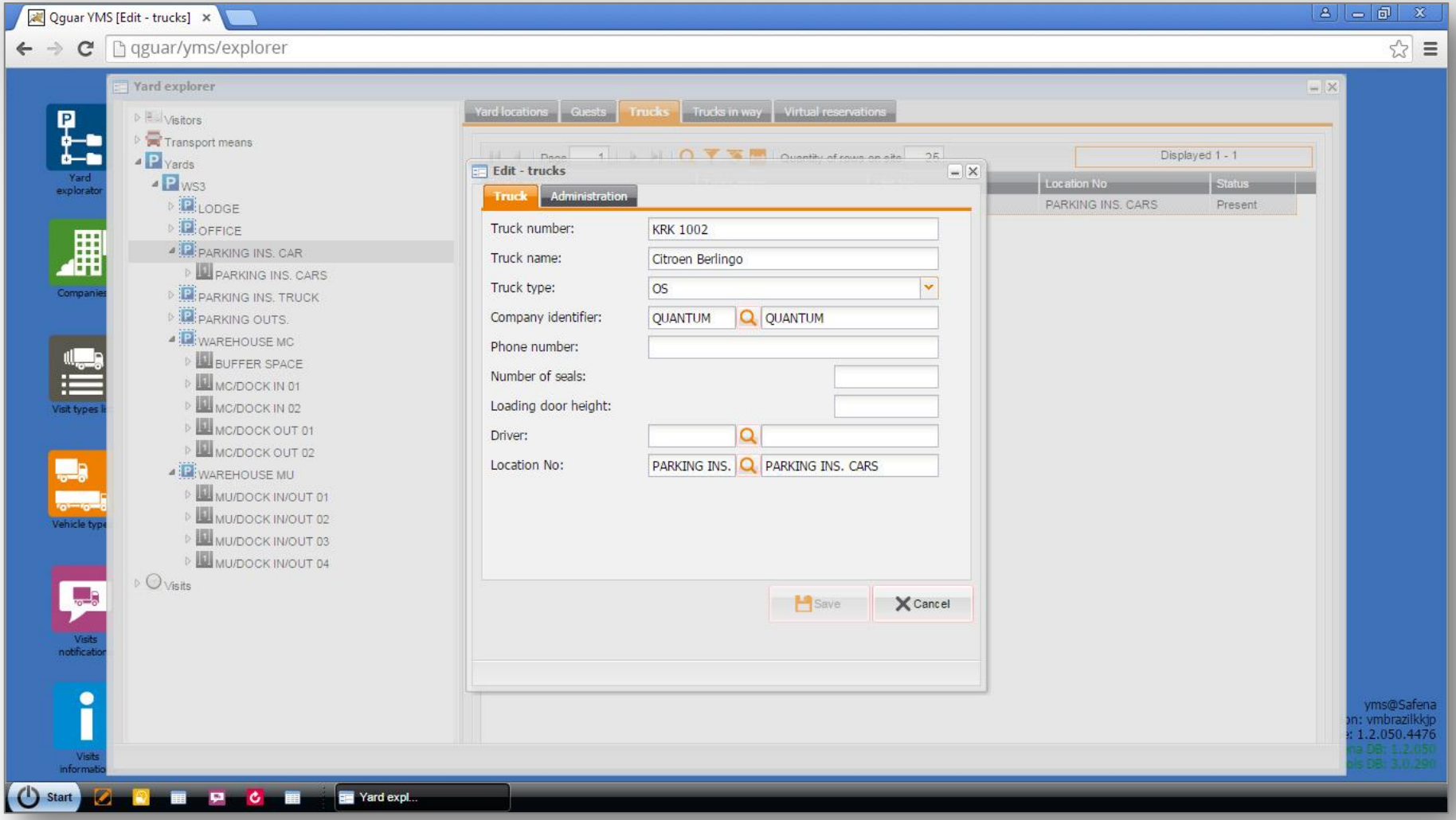
Model of yard management



Model of yard management

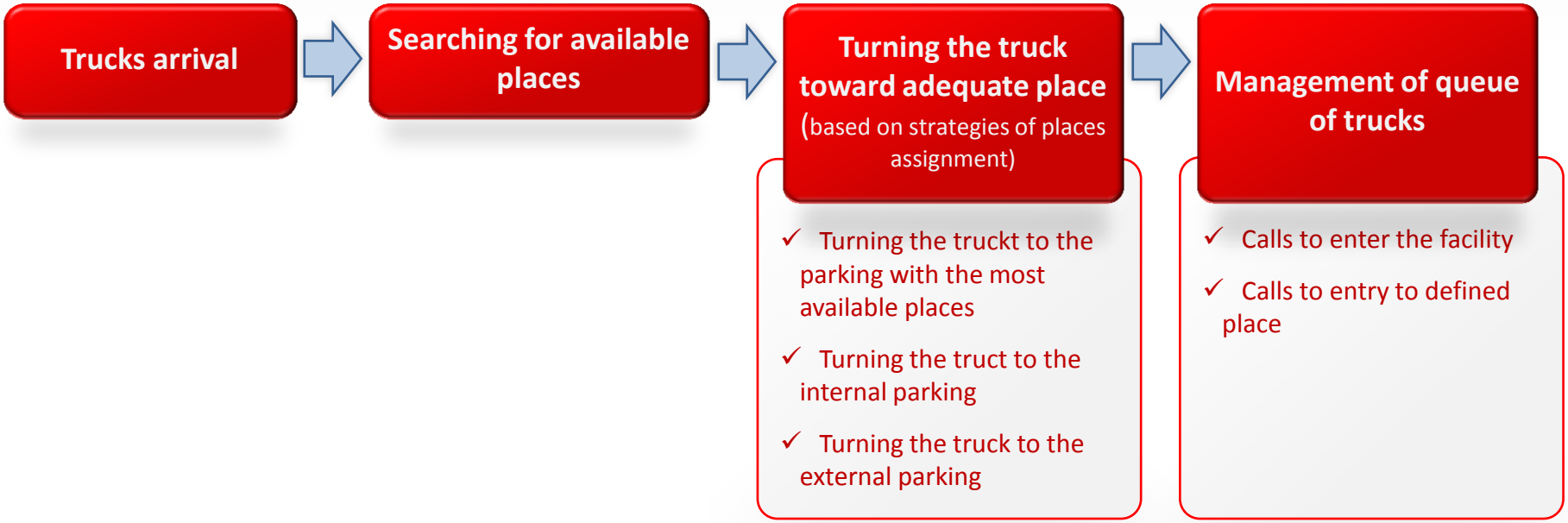


Yard explorer



Qguar YMS

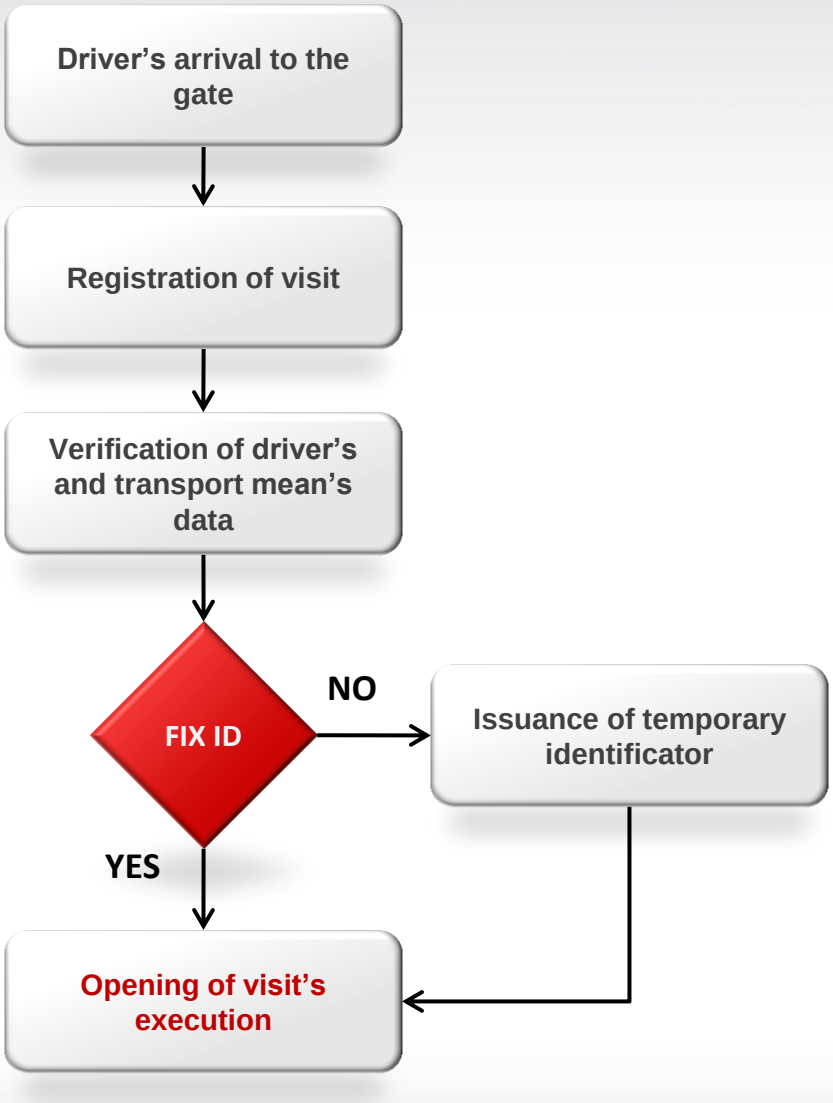
Block diagram of parking places management

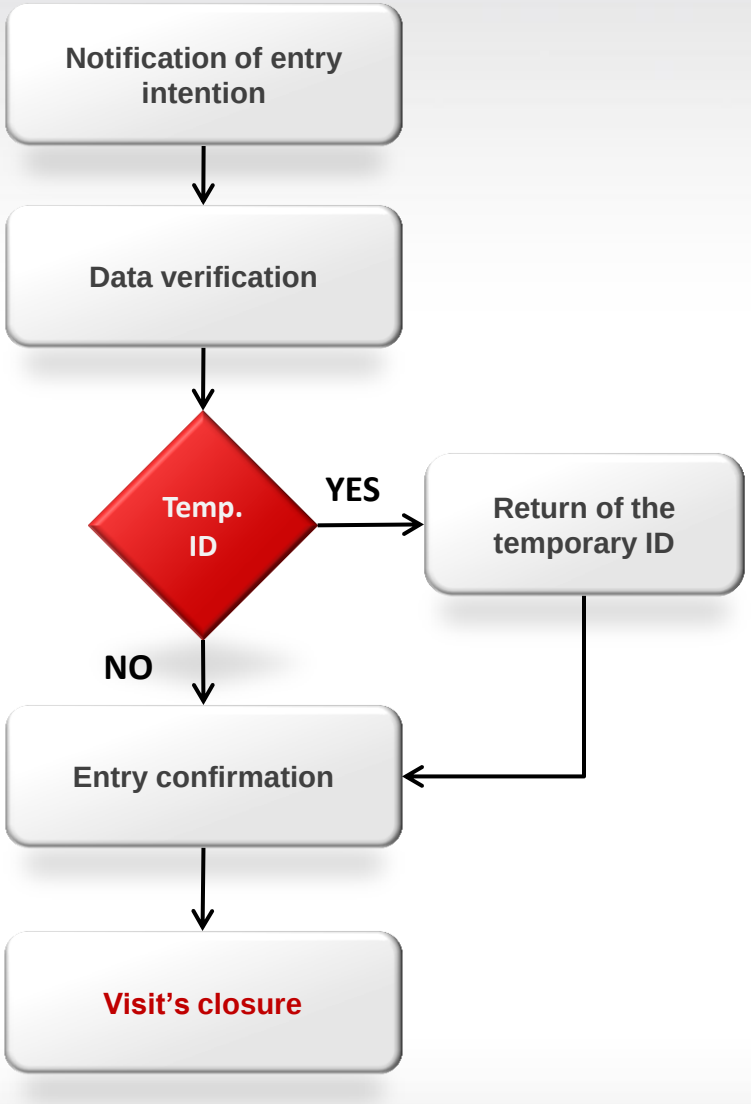


Gate keeper - management

- 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

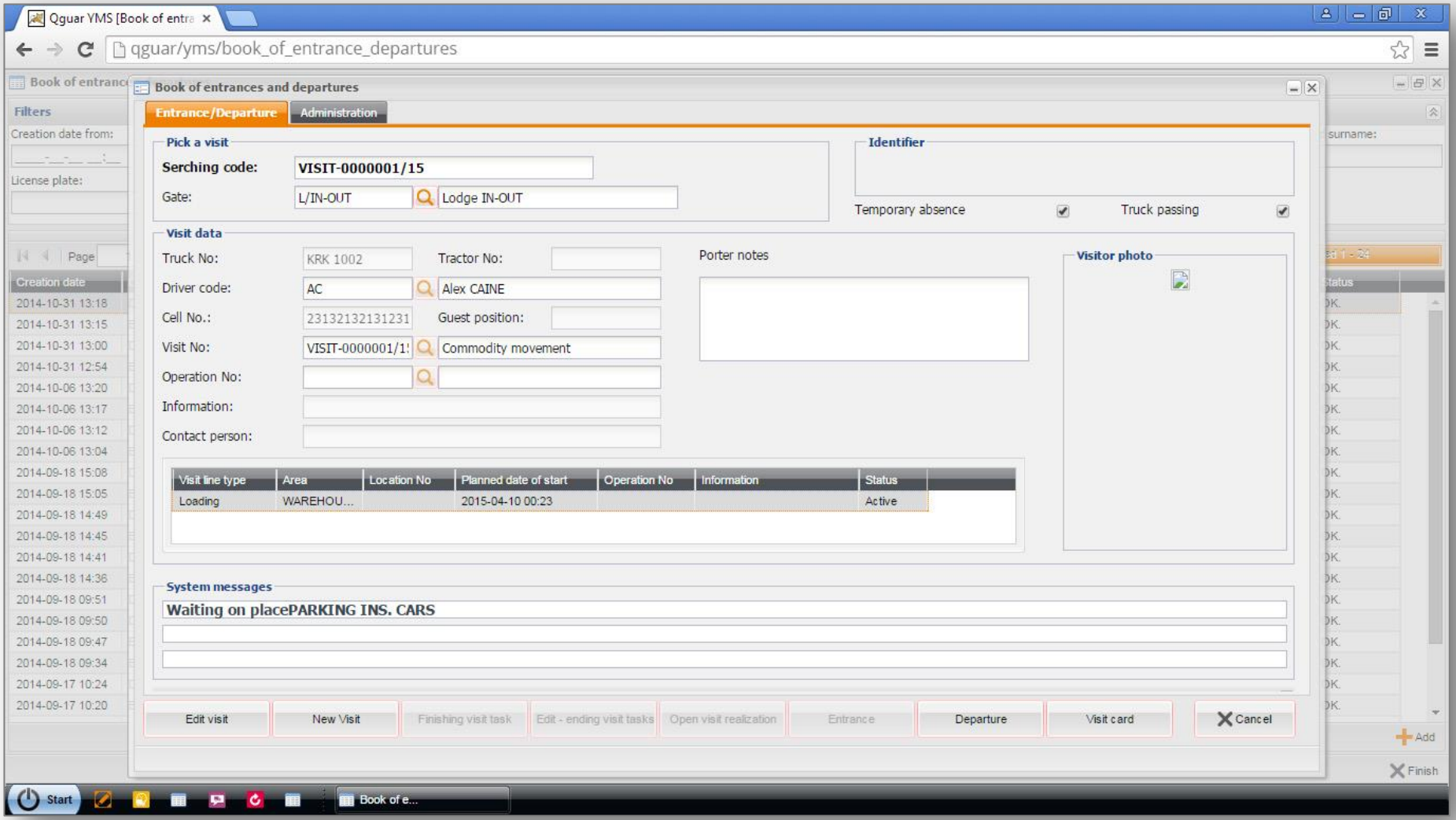
Block diagram about gate keeper management





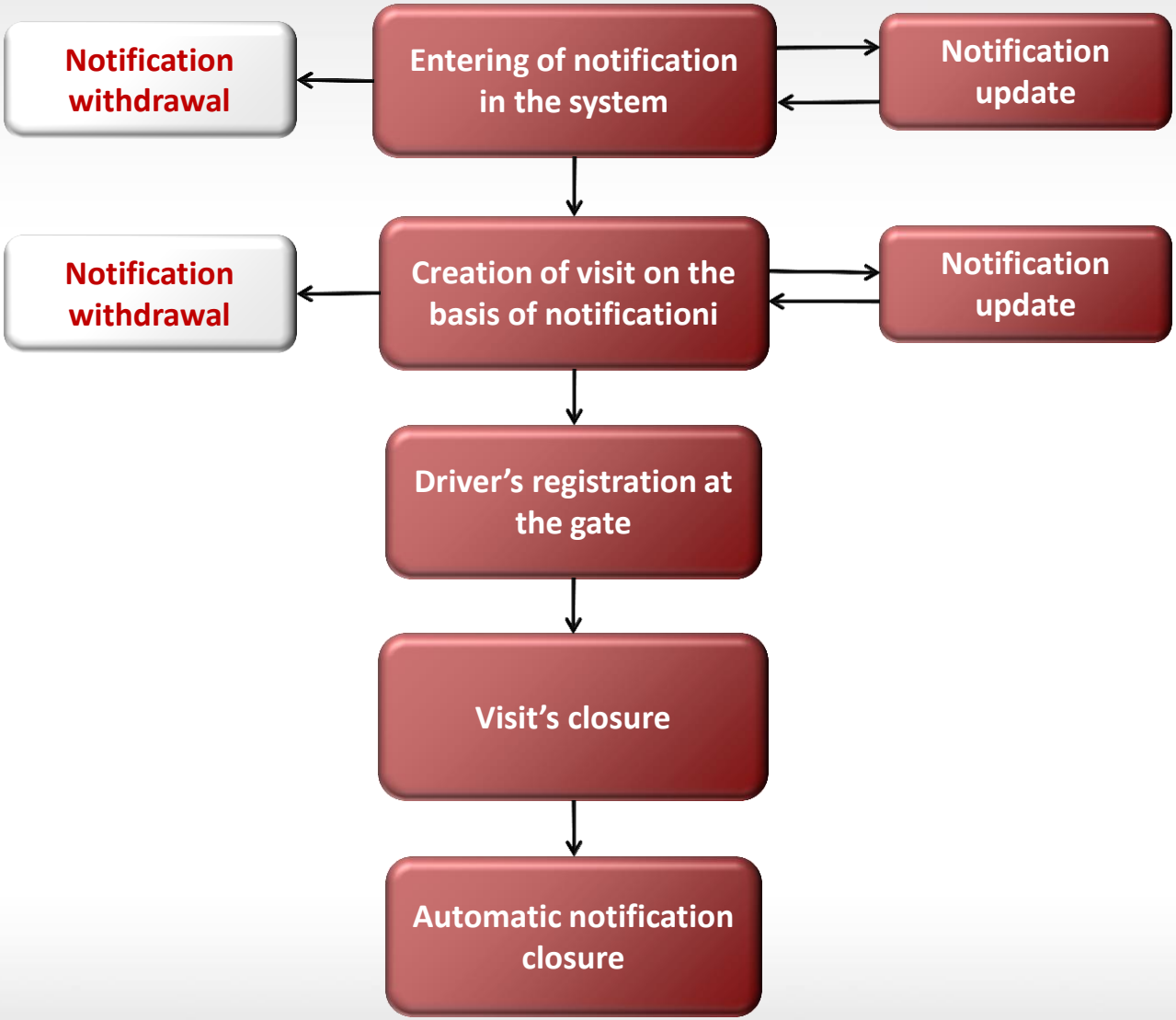
Qguar YMS

Gate keeper management – inbound and outbound registry book

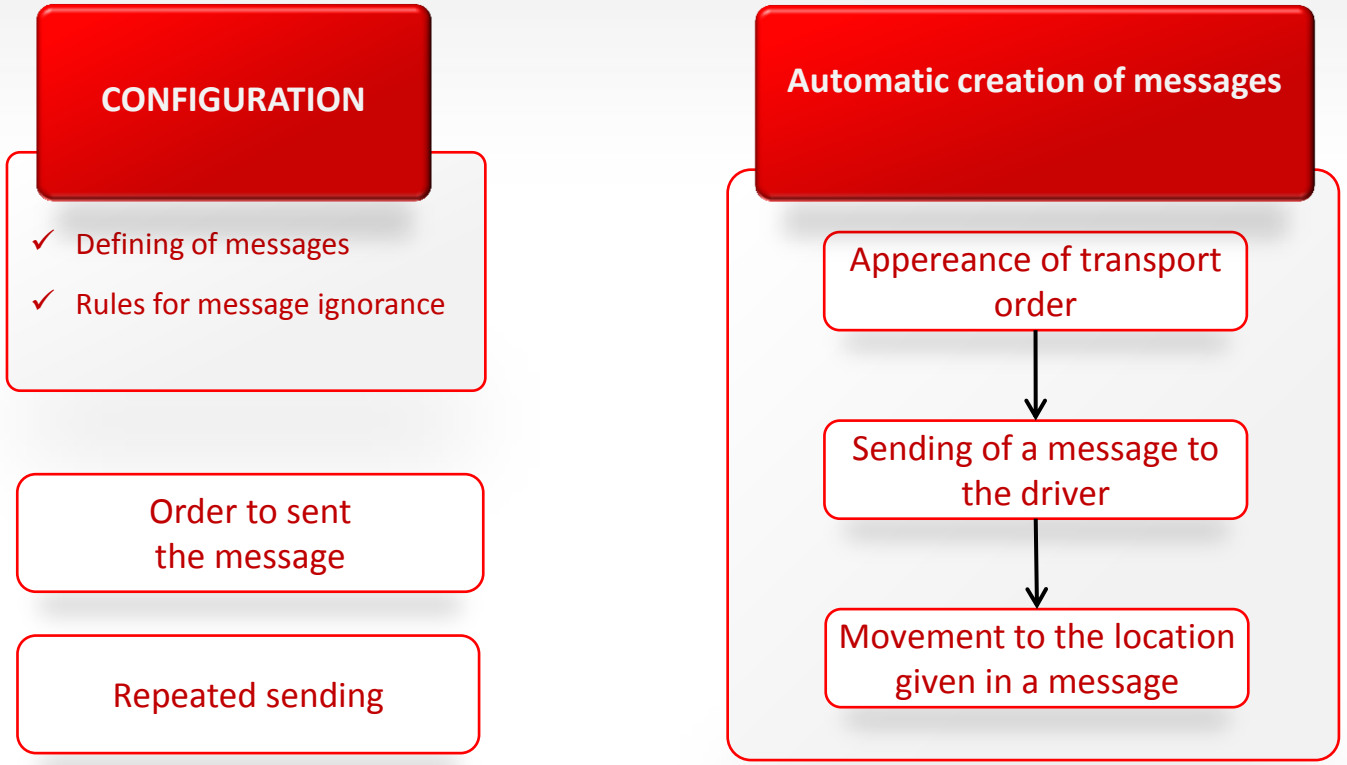


Qguar YMS

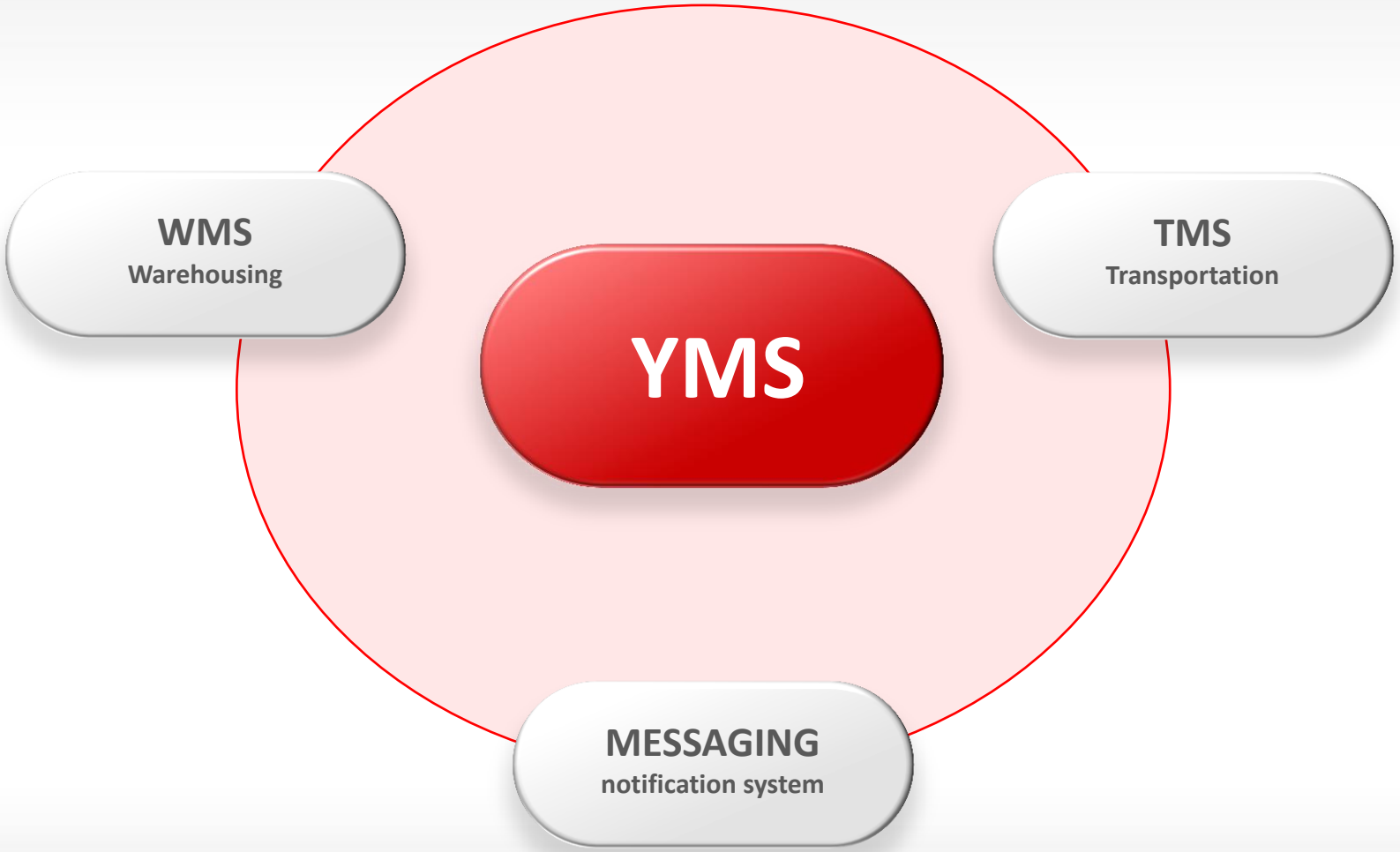
Block diagram about deliveries notification



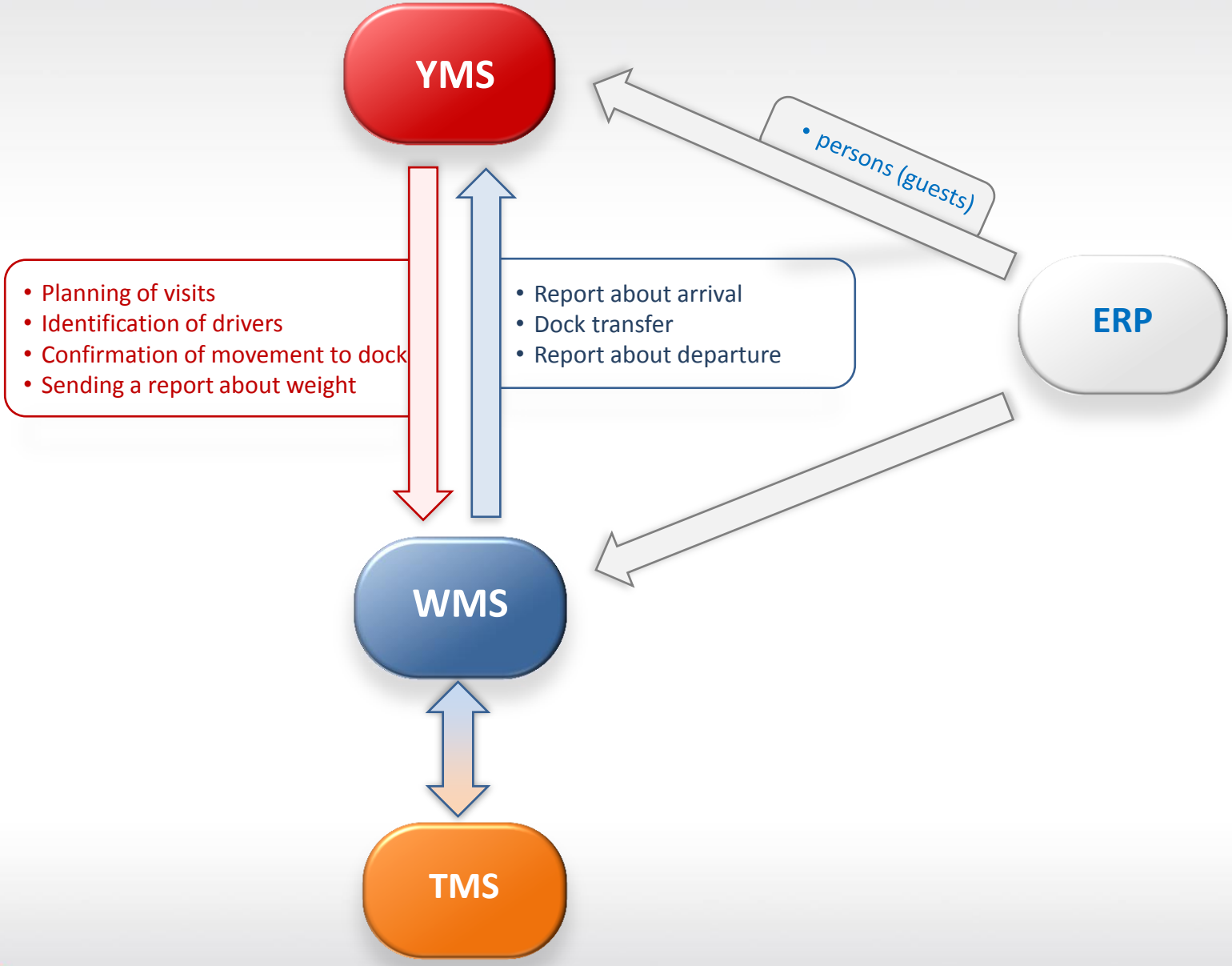
Block diagram about automatic messaging system



YMS in surroundings of the systems



Information exchange between Qguar YMS and other solutions



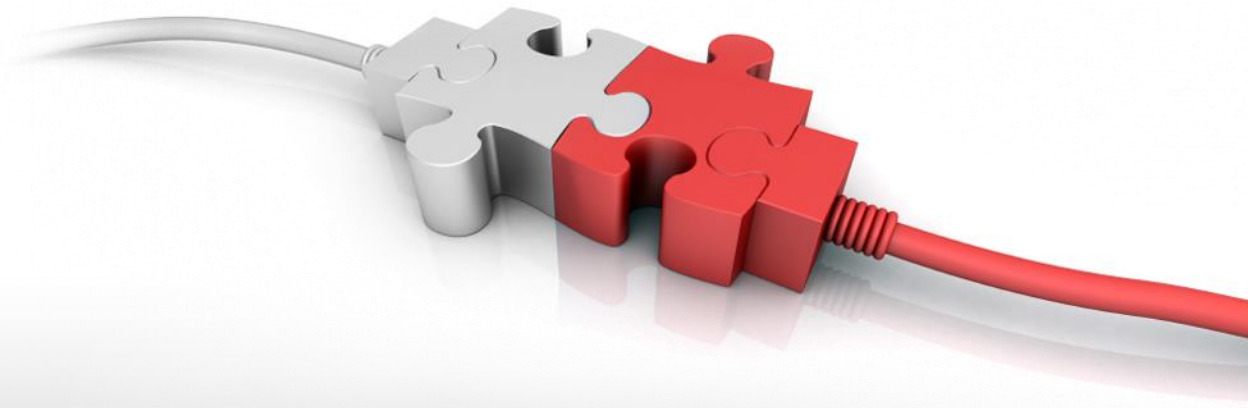
QGUAR YMS - interfaces

✓ **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



Qguar YMS – reporting

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 beeing 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 beeing competed in the visits
Timeliness of notifications	Specification of information about visit notifications, visit numbers, planned and real dates, drivers data, etc.

Qguar YMS

Reporting possibilities

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

Qguar YMS

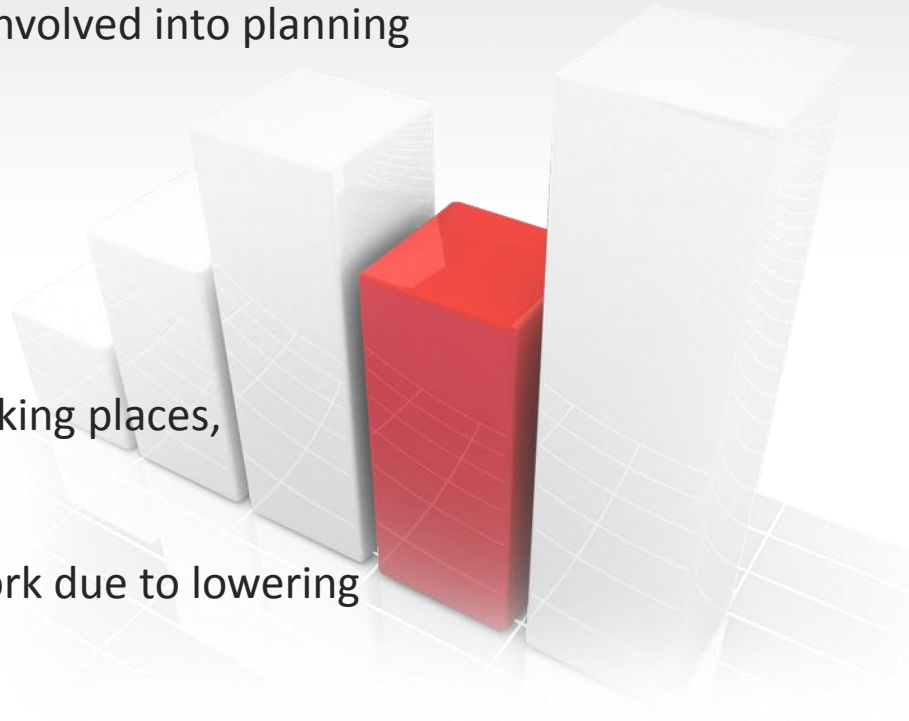
Chosen KPIs in the yard logistics

- ✓ 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 availble places (eg. docks)
- ✓ Offences committed on the premises
- ✓ Timeliness of driver’s appearance in relation to notifications

Qguar YMS

Indicators of work efficiency imporovement after implementation of QGUAR YMS

- ✓ 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)



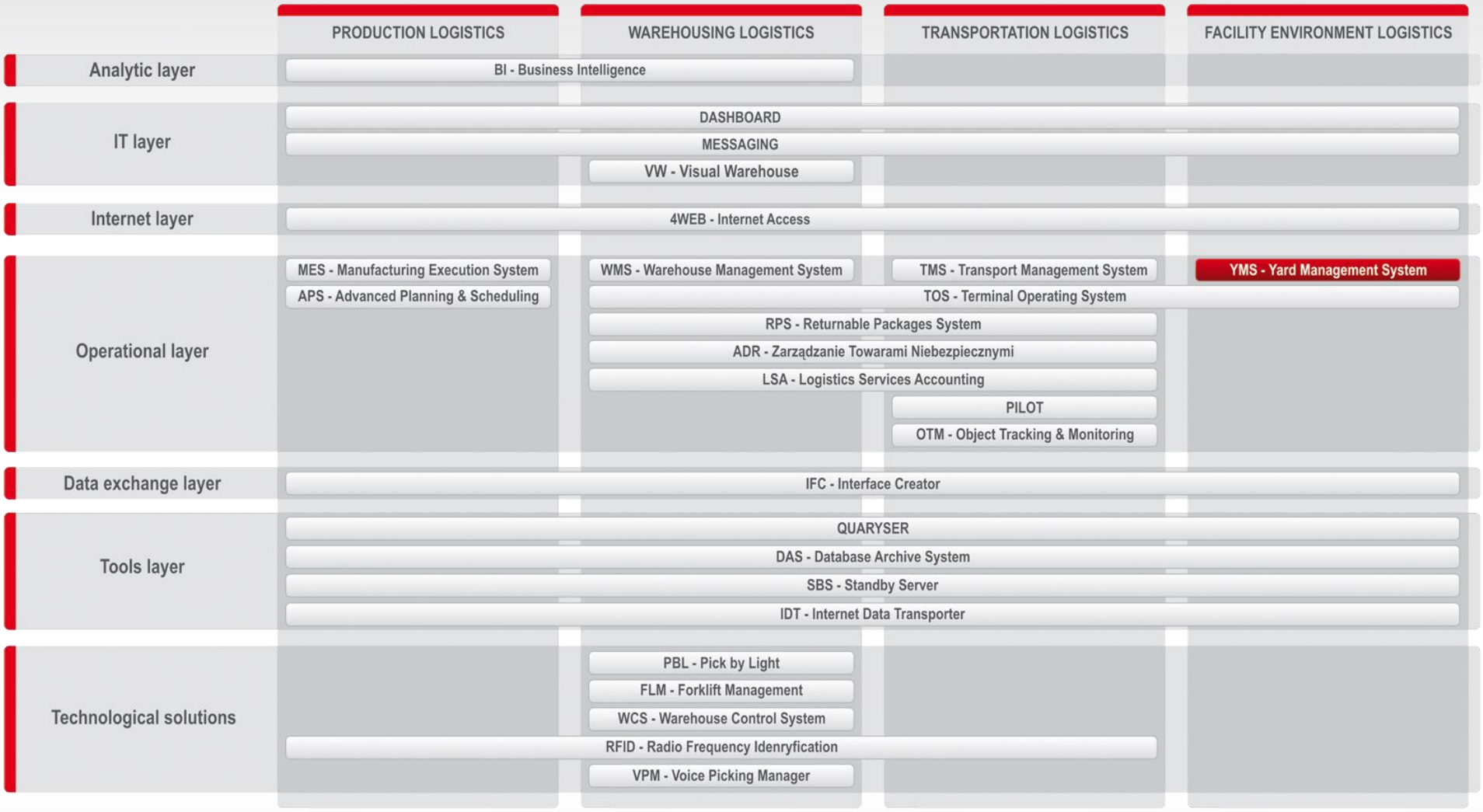
Qguar YMS

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

QGUAR YMS as one of the wide range of Quantum products



Qguar YMS

Thank you for your time

Quantum software S.A.