

AGENDA

Virtual Information Trip Romania



Romania PayT solution

Outlook into the future

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CURRENT SITUATION

New environmental directives lead to a change in waste management

Ongoing contracts with collection companies

- Need of contractual changes and/or additions to existing contracts
- Adaption of collection capacities (bins, vehicles)

02

Monitoring of service and new way of invoicing

- Precise, reliable monitoring of collection data
- Transparency of waste streams
- Individual, fair and measurable basis for calculation of costs for each household

03

Change of residents' behaviour and mind set

- Marketing campaigns for residents
- Providing transparency to residents
- Introduction of incentive systems to encourage people to do better segregation

DISPONDO SOLUTIONS



The System

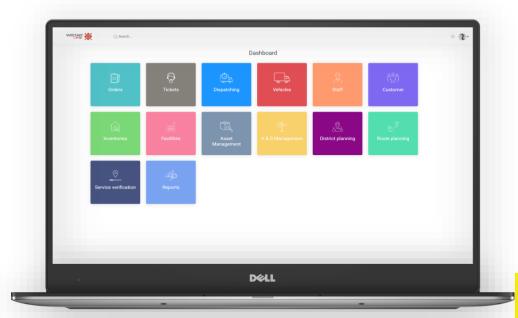
- Digital waste logistics solution (hard- and software)
- Process reliable recording of collection data
- High process reliability
- Transparent waste collection data
- Measurable and fair data basis for Pay-as-you-throw solutions
- Complete operational waste management solution for disposal companies.



User Friendly

The simple user interface of the DISPONDO Operations Cloud:

- Minimal onboarding avoiding down-time
- Low resource utilization for training
- Commercial & residential service verification
- Live View of Vehicles
- Ticket system to streamline communication to residents
- Reports to increase transparence of collection
- Marketplace for integrating third party solutions

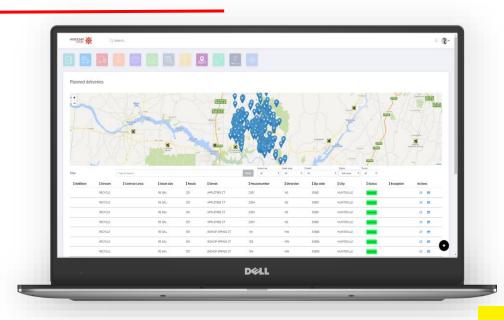




Assembly and Distribution

Precise planning, combined with live processing.

- Comprehensive A&D planning tools
- Managed delivery process
- GPS / RFID tagging
- Barcode tagging
- Real-time performance monitoring via DISPONDO Web

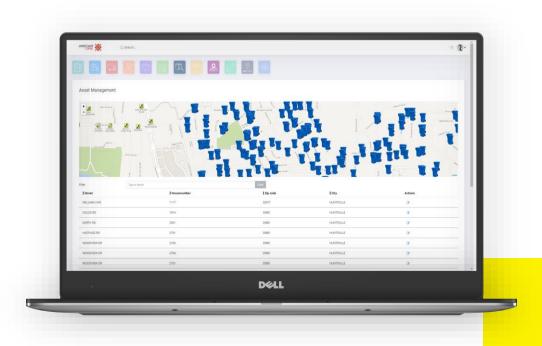




Asset Management

Intuitive Asset Management with integrated mapping functionality to visualize deployed assets.

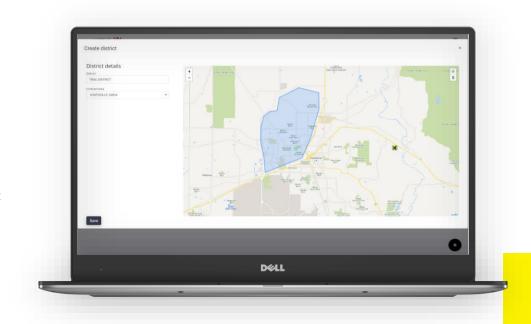
- Modify existing assets
- Add work orders
- Asset specific collection & service history
- Move assets from inventory to field
- Connected customers and addresses
- Modify routes and contract area assignment
- Smart Sensor Integration





Districts & Routes

- Create collection and service routes on the screen by the help of the integrated district drawing tool.
- ✓ Filter existing collection districts, and visualize assets on the map.
- ✓ Optimize the route for your districts with intelligent truck based optimization algorithms also taking into consideration speed and road limitations.





Service Verification

With our service verification feature successful and missed collections are visible with a few clicks.

- Filter and sort collections
- Show exceptions
- Reverse Geocode collections to next logical address from the database
- Collections assigned to existing assets
- Commercial & residential service verification.
- Live View of Vehicles





HARDWARE

Mobile Devices





Vehicle Equipment













Smart Bin



Romania PayT solution

Ready to use PayT solution

Solution for the local Romanian market



- > 160.000 households
- 8000 economic units
- Both LF and UHF identification solutions
- 60 vehicle equipments

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Ready to use PayT solution

Pay-As-You-Throw Based on Frequency







- Regular collection tours
- Bin identification system (RFID)
- variable amount of emptying per tour





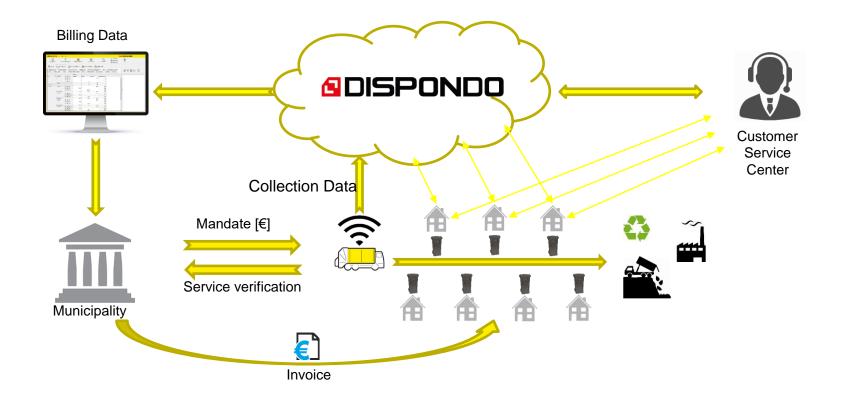


- Standard volume per resident
- Pick up on demand by presenting bin on curb side
- Fee depending on amount of emptying

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Ready to use PayT solution

Infrastructure of solution



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Outlook into the future



Future improvements

- Success control (reporting) of incentive systems and/or marketing campaigns
- Ordered collection on demand → dynamic tour planning
- Workload balancing depending on seasonal fluctuations

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