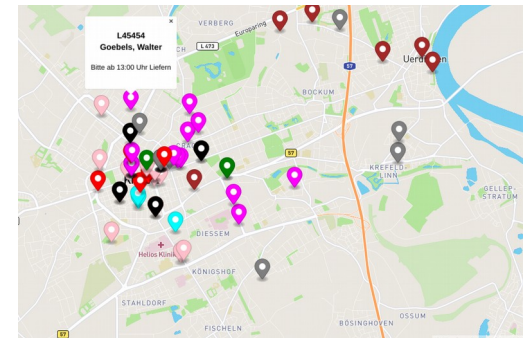# iDempiere Georeferencing

Real World Example

Thomas Bayen

- open source enthusiast

- CEO of Jakob Bayen KG

  a local beverage dealer in Krefeld, Germany

  family company, founded 1886

- CEO of BX Service GmbH

  an iDempiere company

  founded 2013

the real world

our real world has these properties:

- about 500 customers
- a delivery area within a radius of about 30 km
- up to 10 trucks
- up to twenty drivers/codrivers
- logistical requirements
    - the rhine river bridges
    - delivery times / timeslots
    - truck/trailer/driver combinations that fit/not fit due to technical or legal reasons

our data model

static base data

- trucks (resources with type „driver")

- drivers (resources with type „truck")

- tour/route (new table bay_route)

transactional data

- availability of trucks and drivers (resources can do that)

- delivery (new table bay_delivery)

our first solution

The problem:

How do we manipulate these data structures in an efficient way and keep the overview.

We used:

- a special form „assign drivers"? → **delivery**

  might that be made more flexible and universal?

- the iDempiere Kanban board plugin → **tour**

  we made it veeery flexible and powerful, it is much too litle known

still problems

- bad overview

- the address does not really reflect the tour

  due to geographical reasons

the mapbox

- gives an easy overview

nothing more to write here - have a look!

how does it work?

configuration overview

All configuration is done in sql. That is a very flexible approach.

- there is a process to start it with a menu entry.
- and a (more flexible) api to be used from java code.

the future

ideas for more sponsored developments

- cache the map
- allow links to go back to documents/bpartners
- a configurable process
- ...your ideas?!?

Thanks for your attention!

Questions?

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