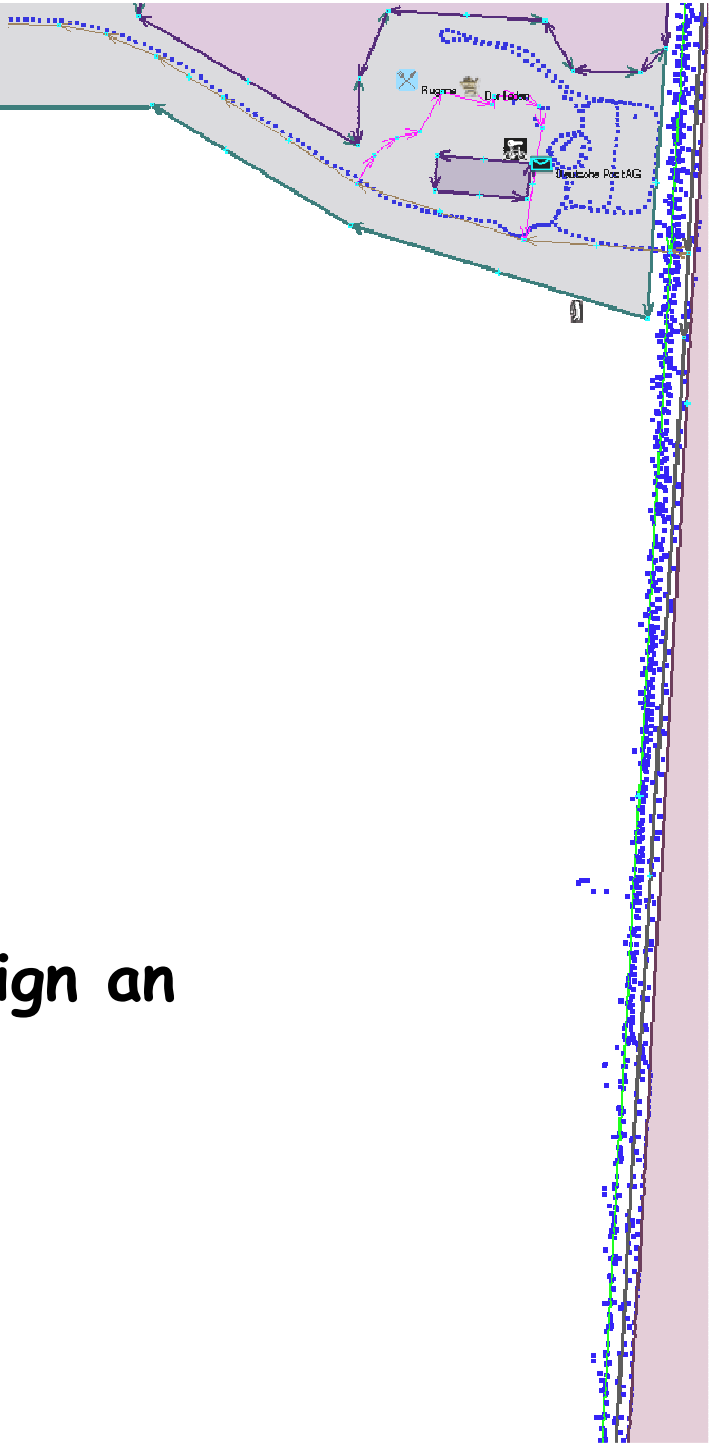
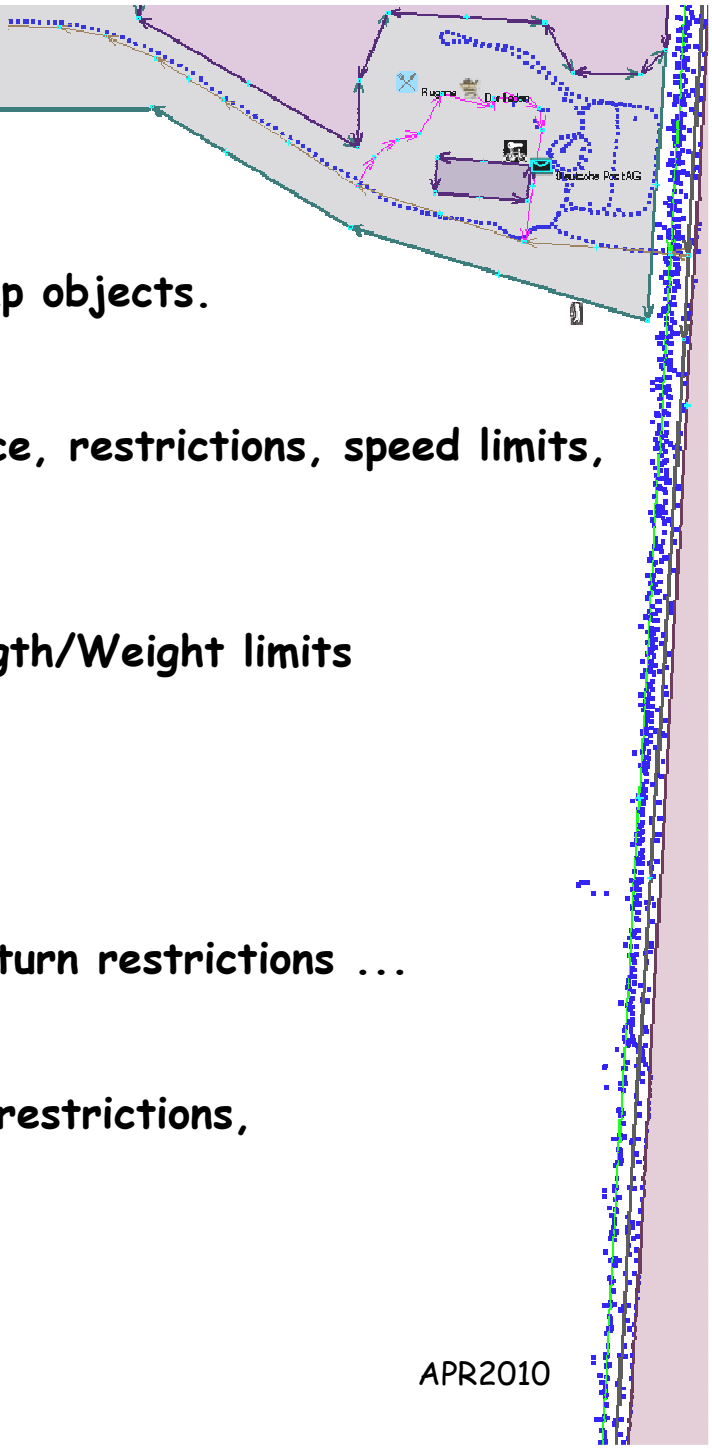


# eXplorers Pal

**A knocking-off time project to design an OSM Data Aquisition Device.**

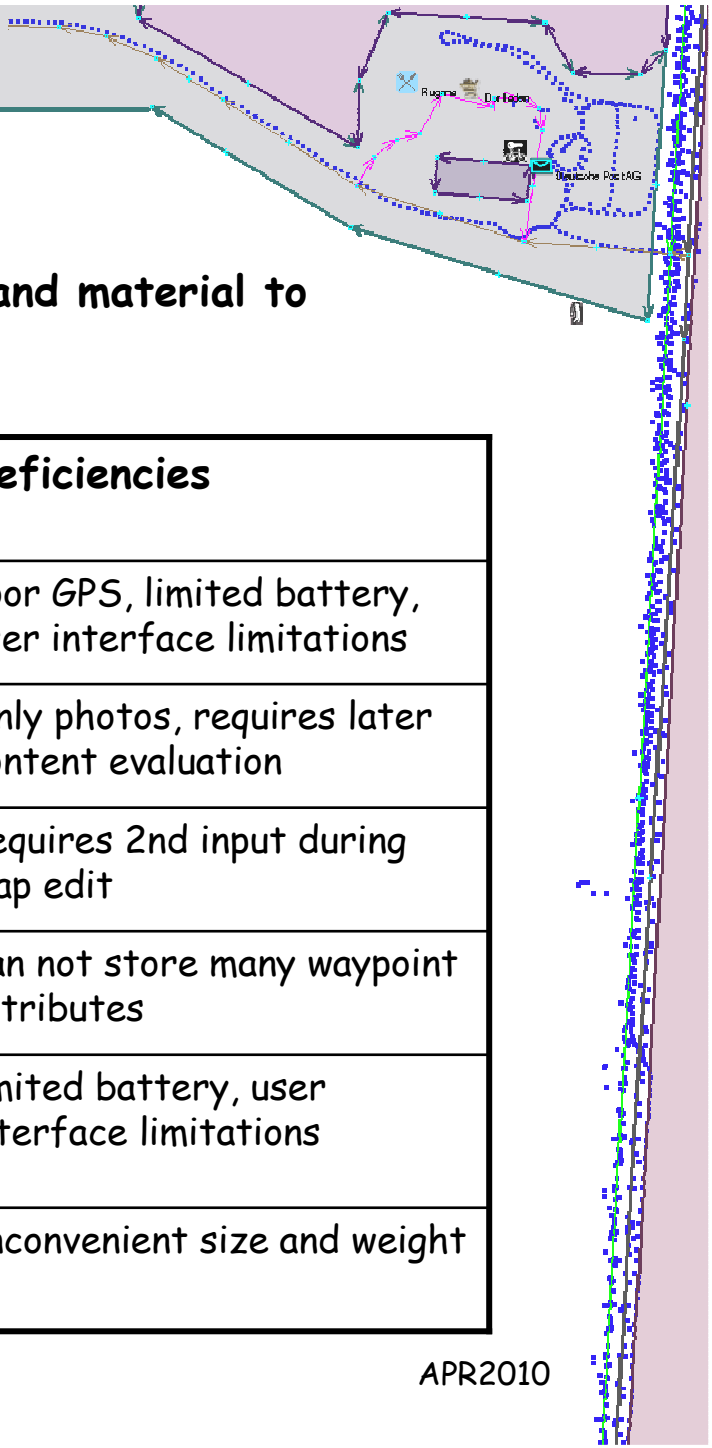
- Based, but not limited to Saxony
- 4 active developers in Dresden and Zittau



# Data Collected for OpenStreetmaps

**OSM can handle more and more attribute data for map objects.**
**Some examples:**

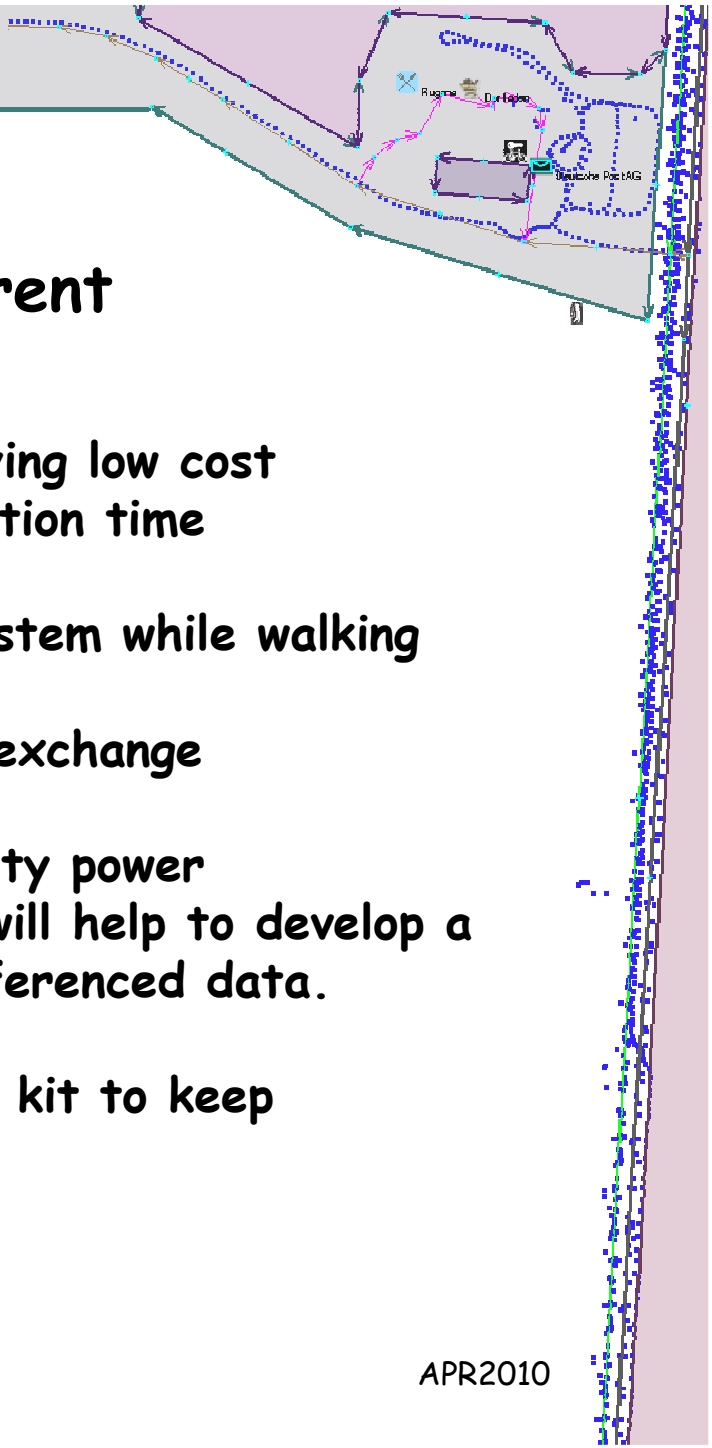
- **Streets and other way objects: Lanes, width, surface, restrictions, speed limits, Bus, Tram, one way ...**
- **Ferry: Capacity, Operating Hours, Width/Hight/Length/Weight limits**
- **Restaurant: Open hours, name, style of food**
- **Relations: Hiking trails, bycicle routes, intersection turn restrictions ...**
- **Area Properties: Landuse type, forest type, access restrictions, natural reservation ...**
- **and many more...**



# OSM Data Collection Techniques

**The typical OSM explorer is using a mixture of tools and material to collect the data he likes:**

| Device | Data collected | Deficiencies |
|---|---|---|
| Cell Phone | GPS tracks, photos, voice recorded notes | Poor GPS, limited battery, user interface limitations |
| Camera | Photos | Only photos, requires later content evaluation |
| Notes on paper | Notes, sketches | Requires 2nd input during map edit |
| GPS Navigation Device | GPS tracks, stored waypoints | Can not store many waypoint attributes |
| Hand Held PC | GPS tracks, stored waypoints, notes, voice records | limited battery, user interface limitations |
| Laptop | All kind of notes, direkt editor input | Inconvenient size and weight |

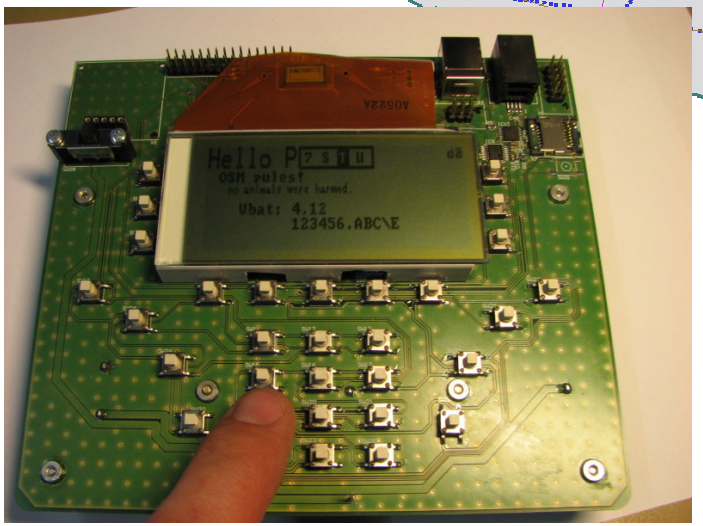


# What eXplorers XPal tries to do different

- Make it less fancy, but operate longer by staying low cost
  Monochrome LCD, 8bit CPU, >40h operation time
- Larger size and normal keys to operate the system while walking
- Normal AA cells are available everywhere for exchange
- Open Source platform to leverage the community power
  We hope, that the internet community will help to develop a variety of applications to collect geo referenced data.
- Provide the hardware also as self-construction kit to keep the costs low.
- More details will evolve with the project

APR2010

## eXplorers Pal Project Status




- Three running prototypes
- Two more prototypes to be assembled on demand
- A first application to store GPS tracks is already running
- 2nd application to store house numbers under development
- Housing for the prototype is under development
- Operating system functions are under development
- Cost calculation from a turn key manufacturer in progress

Stay tuned at [www.explorerspal.org](http://www.explorerspal.org)