

Responsive Transportation Systems on Public Demand Challenges in Rural Areas

DI Alexander FÜRDÖS Rotterdam, Nov 7th, 2018

Interface for Smart Transport

I S T mobil



TEAM CEO Alexander Stiasny 19 Employees



LOCATION Conrad-von-Hötzendorf-Str.110 8010 Graz - Austria



DEA

Transportation Planning Business Consulting Operator of Microtransit IT-Services



HISTORY Founded in 2013 as part of an independent project of Stiasny Mobility Management

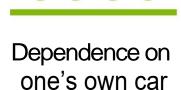
Situation in Rural Areas







Hardly any access to public transport







Disadvantage for immobile groups of people



Dependence on pick-up and drop-off services





mobil Video



ISTmobil Concept

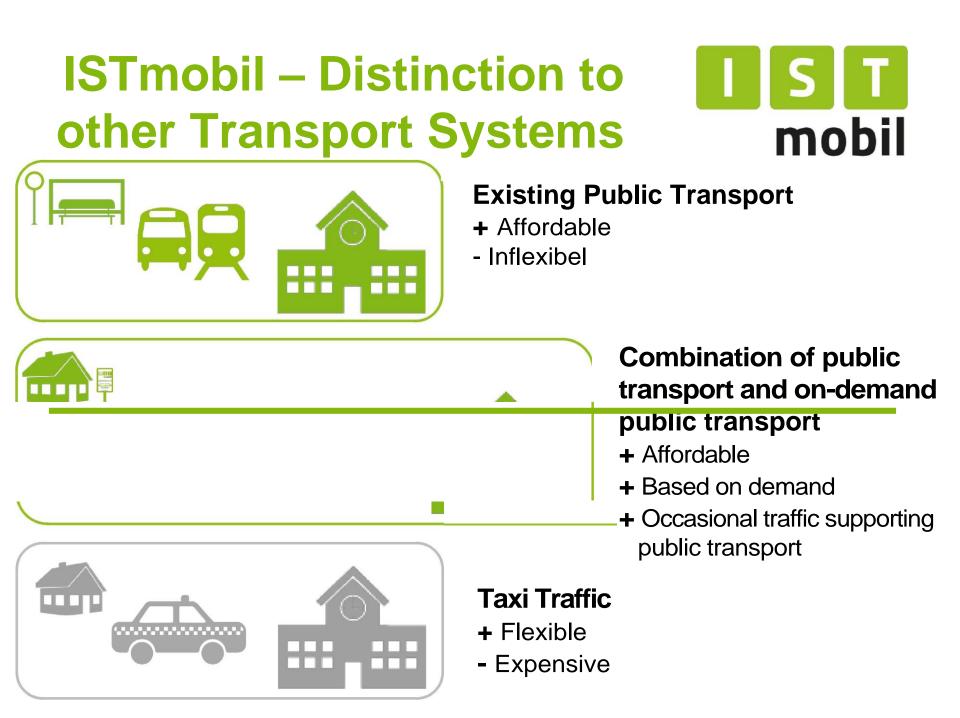


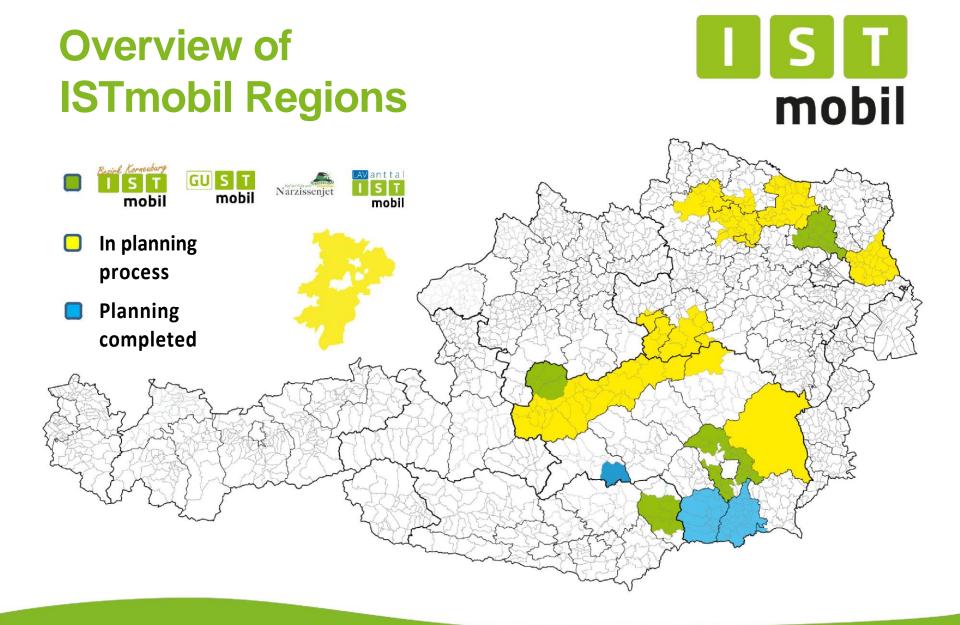
No competition to higher-ranking public transport **by IST**mobil

Connection to a reasonable public transport network (feeder and collector)

Ensuring a well-structured mobility system within communities







ISTmobil System Design

I S T mobil

System Services Adapted to Region





Fixed System Services Components

















Operating Hours I

Narzissenjet



Operating Hours

Sunday – Thursday, Holidays	09:00 - 22:00
Friday, Day before a Holiday	09:00 - 24:00



Operating Hours II

ISTmobil Korneuburg



Operating Hours	
Monday - Thursday	06:00 - 22:00
Friday	06:00 - 24:00
Saturday	08:00 - 24:00
Sunday and Holidays	09:00 - 18:00



Minimum Lead Time for Booking a Ride

30 minutes 06:00-14:00 Uhr **60 minutes** 14:00-24:00 Uhr

Distance-Based Tariff



Tariff Structure: Special tariff on short distances up to 5,5 km; Billing per person

Tariff System									
Distance	1 Person	2-3 People	4 People						
up to 3,5 km	€ 3,00	€ 2,00	€ 1,00						
up to 5,5 km	€ 5,00	€ 3,00	€ 2,00						
up to 7,5 km	€ 7,00	€ 5,00	€ 4,00						
up to 10 km	€ 9,00	€ 7,00	€ 6,00						
more than 10,00 km	€ 1,10 / km	€ 0,80 / km	€ 0,60 / km						

Distances longer than 10,00 will be charged by an exact billing per kilometer.

Link to public transport hubs will be charged

Tariff Zones

ISTmobil Korneuburg

Bahnhof Mistelbach Niederleis Bahnhof The service Ladendorf Ernstbrunn area is divided Großmugl Bahnhof into zones about Niederkreuzstetten the same size. Großrußbach Niederhollabrunn Bahnhof Großweikersdorf Bahnhof Sierndorf Schleinbach There are Leitzersdorf Harmannsdorf defined fixed Hausleiten tariffs within Bahnhof Leobendorf Absdorf-Hippersdorf a tariff zone. Stockerau Stetten Enzersfeld Spillern Korneuburg Bisam-Hagenbrunn Gerasdorf / berg Bahnhof bei Wien Tulln Stammersdorf (Linie 31) • Bahnhof Rußbergstraße trebersdorf (Linie 26) Bahnhof Strebersdorf Wien-Süßenbrunn Leopoldau

(Linie U1)

I S T mobil

Tariff Structure

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	Bisamberg, Hagenbrunn	Enzersfeld im Weinviertel, Stetten	Emstbrunn	Gerasdorf bei Wien	Großmugl	Großrußbach	Harmannsdorf	Hausleiten	Komeuburg	Leitzersdorf	Leobendorf	Niederhollabrunn	Niederleis	Siemdorf	Stockerau
Bisamberg, Hagenbrunn	€ 1,7	€2,2	€ 5,5	€2,2	€ 6,6	€4,4	€ 3,3	€ 5,5	€ 2,2	€4,4	€ 3,3	€4,4	€ 5,5	€ 5,5	€4,4
Enzersfeld im Weinviertel, Stetten	€2,2	€ 1,7	€4,4	€ 3,3	€4,4	€ 3,3	€ 2,2	€4,4	€ 2,2	€ 3,3	€ 2,2	€ 3,3	€4,4	€4,4	€ 3,3
Ernstbrunn	€ 5,5	€4,4	€ 1,7	€ 6,6	€ 2,2	€ 2,2	€ 3,3	€4,4	€ 5,5	€ 3,3	€ 4,4	€ 2,2	€ 2,2	€ 3,3	€4,4
Gerasdorf bei Wien	€2,2	€ 3,3	€ 6,6	€ 1,7	€ 6,6	€ 5,5	€ 4,4	€ 6,6	€ 3,3	€ 5,5	€ 4,4	€ 5,5	€ 6,6	€ 6,6	€ 5,5
Großmugl	€ 6,6	€ 4,4	€ 2,2	€ 6,6	€ 1,7	€ 3,3	€ 3,3	€ 3,3	€ 5,5	€ 3,3	€ 4,4	€ 2,2	€ 3,3	€ 2,2	€ 3,3
Großrußbach	€4,4	€ 3,3	€ 2,2	€ 5,5	€ 3,3	€ 1,7	€ 2,2	€ 5,5	€4,4	€ 3,3	€ 3,3	€ 2,2	€ 2,2	€ 3,3	€4,4
Harmannsdorf	€ 3,3	€ 2,2	€ 3,3	€4,4	€ 3,3	€ 2,2	€ 1,7	€4,4	€ 3,3	€ 3,3	€ 2,2	€ 2,2	€ 3,3	€4,4	€ 3,3
Hausleiten	€ 5,5	€ 4,4	€ 4,4	€ 6,6	€ 3,3	€ 5,5	€ 4,4	€ 1,7	€ 4,4	€ 3,3	€ 3,3	€ 3,3	€ 5,5	€ 2,2	€ 2,2
Korneuburg	€ 2,2	€2,2	€ 5,5	€ 3,3	€ 5,5	€4,4	€ 3,3	€4,4	€ 1,7	€ 3,3	€ 2,2	€4,4	€ 5,5	€4,4	€ 3,3
Leitzersdorf	€4,4	€ 3,3	€ 3,3	€ 5,5	€ 3,3	€ 3,3	€ 3,3	€ 3,3	€ 3,3	€ 1,7	€ 2,2	€2,2	€4,4	€2,2	€ 2,2
Leobendorf, Spillern	€ 3,3	€ 2,2	€4,4	€4,4	€4,4	€ 3,3	€ 2,2	€ 3,3	€ 2,2	€ 2,2	€ 1,7	€ 3,3	€4,4	€ 3,3	€ 2,2
Niederhollabrunn	€4,4	€ 3,3	€ 2,2	€ 5,5	€ 2,2	€ 2,2	€ 2,2	€ 3,3	€ 4,4	€ 2,2	€ 3,3	€ 1,7	€ 3,3	€ 2,2	€ 3,3
Niederleis	€ 5,5	€4,4	€ 2,2	€ 6,6	€ 3,3	€ 2,2	€ 3,3	€ 5,5	€ 5,5	€4,4	€4,4	€ 3,3	€ 1,7	€4,4	€ 5,5
Sierndorf	€ 5,5	€4,4	€ 3,3	€ 6,6	€ 2,2	€ 3,3	€4,4	€ 2,2	€4,4	€2,2	€ 3,3	€ 2,2	€4,4	€ 1,7	€2,2
Stockerau	€4,4	€ 3,3	€ 4,4	€ 5,5	€ 3,3	€4,4	€ 3,3	€ 2,2	€ 3,3	€ 2,2	€ 2,2	€ 3,3	€ 5,5	€ 2,2	€ 1,7

Price Quotation excl. Convenience Surcharge

Convenience Surcharge (tariff for season ticket holder):

Until 07 pm – **€ 2,00** After 07pm – **€ 4,00**

Season Tickets I Example Korneuburg



Mr Smith commutes from Spillern to Vienna on a daily basis and owns an annual pass to Vienna.



Network: Route from Spillern to Vienna(Source: VOR)

Season Tickets II Example Korneuburg

I S T mobil

ISTmobil Ride I: Route Spillern to Korneuburg Main Square, 6pm

Price: 2,00 € (only comfort surcharge because of season ticket for that very root)

ISTmobil Ride II: Route Spillern to Stockerau Town Hall, 4pm

Price: 4,20 € (2,20 € basic rate plus 2,00 € comfort surcharge)

ISTmobil Route III: Route Spillern to Niederhollabrunn, 8.30pm

Price: 7,30 € (3,30 € basic rate plus 4,00 € comfort surcharge)



ISTdis Software System Components I



Input-Interface Graphical User Interface

Online Customer Access ISTmobil App





Output-Interface

Tablet Smartphone Analogue Media



Backend Administration Controlling



Allocation of Rides

Automated Manual

ISTdis Software

System Components II



Automised Billing

Customers Car Companies Communities



Maps Mapping Routing



Customer Management

Customer Data Base Adresses of Home Pick-up Services Accounting

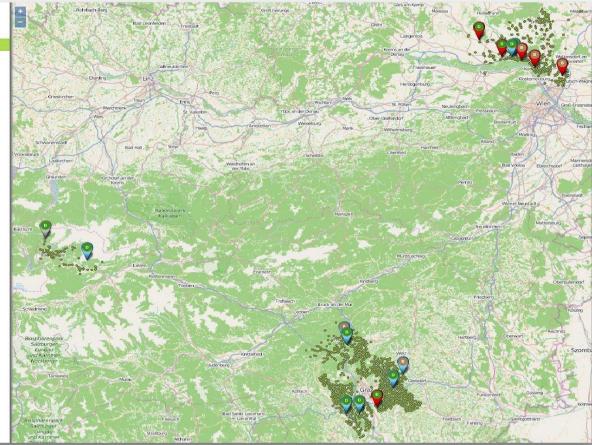


Support Customers Car Companies

User Interface Service Center (Callcenter)







Changing to Public Transport

Criteria

Immobile people are transported directly to all stopping points at all times by IST mobil (home pick-up service remains unchanged)

No change to public transport within a community necessary

Rides across communities are check wheather a direct ride by public transport or multimodal ride (on demand public transport services) are possible

Public transport connection is checked 15 minutes before and

30 minutes after the customer's booking time







Changing to Public Transport Example ISTmobil Korneuburg I

Mr Smith would like to get **from Seyring** (community Gerasdorf) **to Gerasdorf Townhall at 8.30am on** weekdays.

Is it possible that ISTmobil conducts this ride directly or is a change to public transport necessary?

As the route is within one community, ISTmobil can conduct the ride directly to the customer's destination.





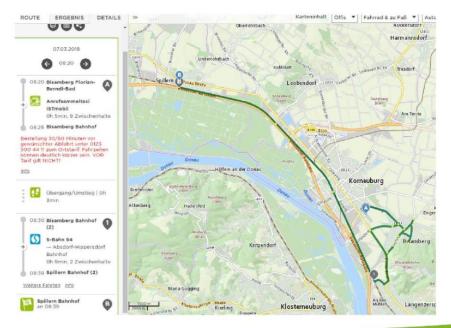
Changing to Public Transport Example ISTmobil Korneuburg II



Mrs Stuart needs a ride from **Bisamberg** (Florian-Berndl-Bad) to **Spillern** at 8.15am on weekdays.

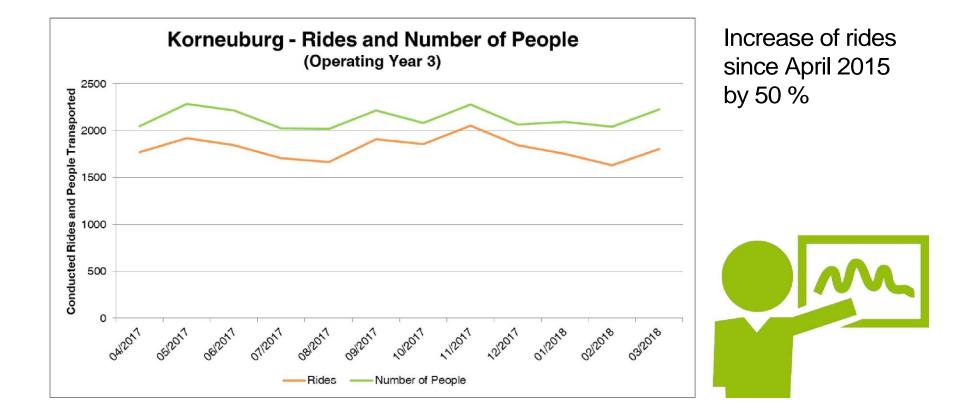
Is it possible that IST mobil conducts this ride directly or is a change to public transport necessary?

As there is a train connection available at 8.30am to Mrs Stuat's destination, ISTmobil acts as feeder for the public transport.



ISTmobil Evaluation Example Korneuburg





Contact





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