

representative:  
Igor Yanovskiy



# TreeTalk

*Wireless Voice Terminal and System*

supported by:



Let me start by introducing TreeTalk.  
We are building the **Terminal**, the **System** and the **software environment** for real-time voice group communications.

<http://www.Tree-Talk.com>



# Land Mobile Radio Flaws

## - Noise

- Bulky antennas
- Limited range of communication
- Need for power amplifiers
- Complex mounting, commissioning, and maintenance



First, we have addressed the problems of the low-cost segment of the LMR market.



# Land Mobile Radio Sales



2 billion U.S. dollars  
a year



Despite those flaws,  
segment ratings show a  
growing annual profit.



# The Advantages of Radio

(and of TreeTalk too)

Why have people been buying these pricey radios for 100 years?

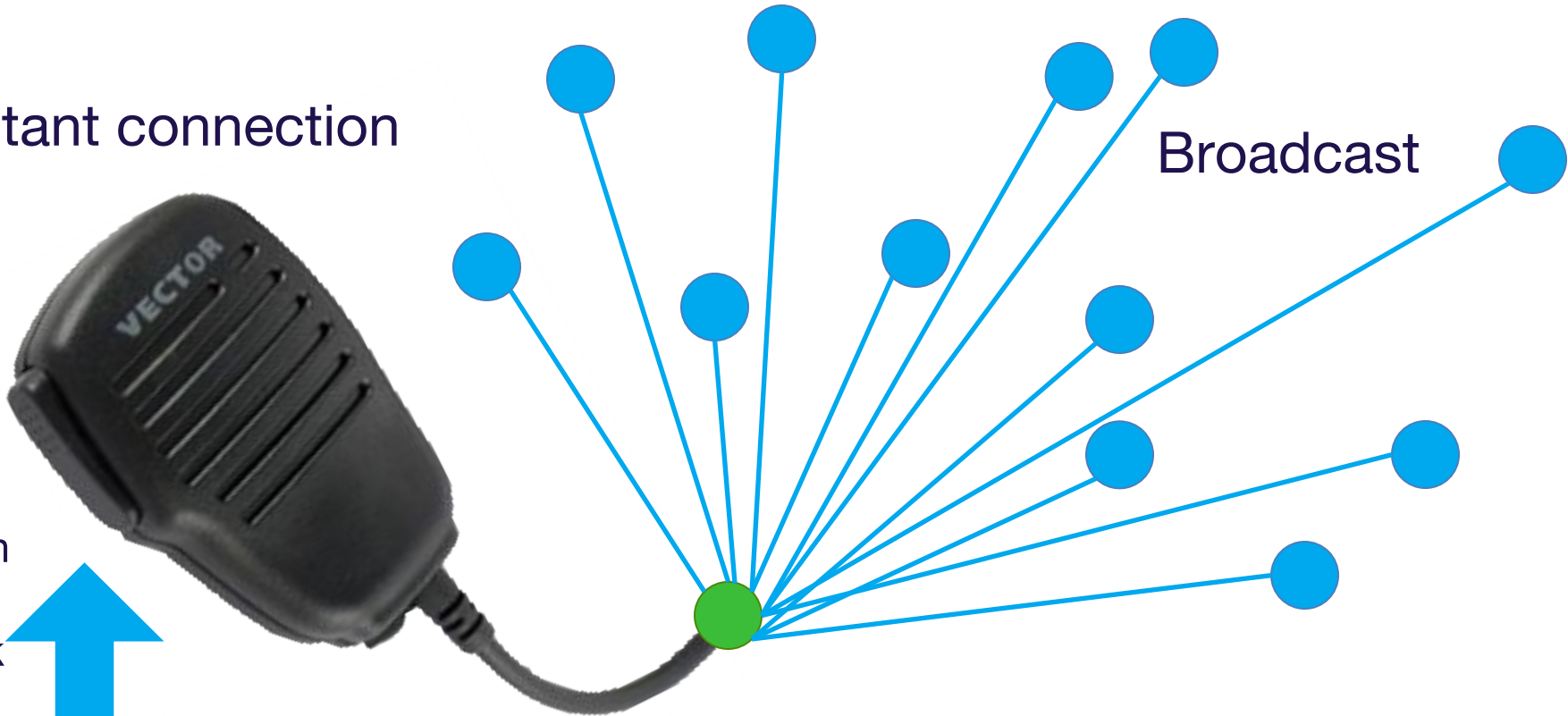
Instant connection

Broadcast

Push  
&  
Talk

Easiness

Because of those 3 simple advantages!





# Pros & Cons



## Traditional conventional radio

- + Broadcasting
- + Simplicity
- + Instant connection

### - Noise

- Limited range of communication

- Complex mounting, commissioning, and maintenance

- Power amplifiers

- Bulky antennas



## TreeTalk system

- + Broadcasting
- + Usability

+ Instant connection

+ Duplex mode operation

+ Digital sound

+ No noise

+ Extra features (GPS etc.)

+ Selective call

+ Flexible groups

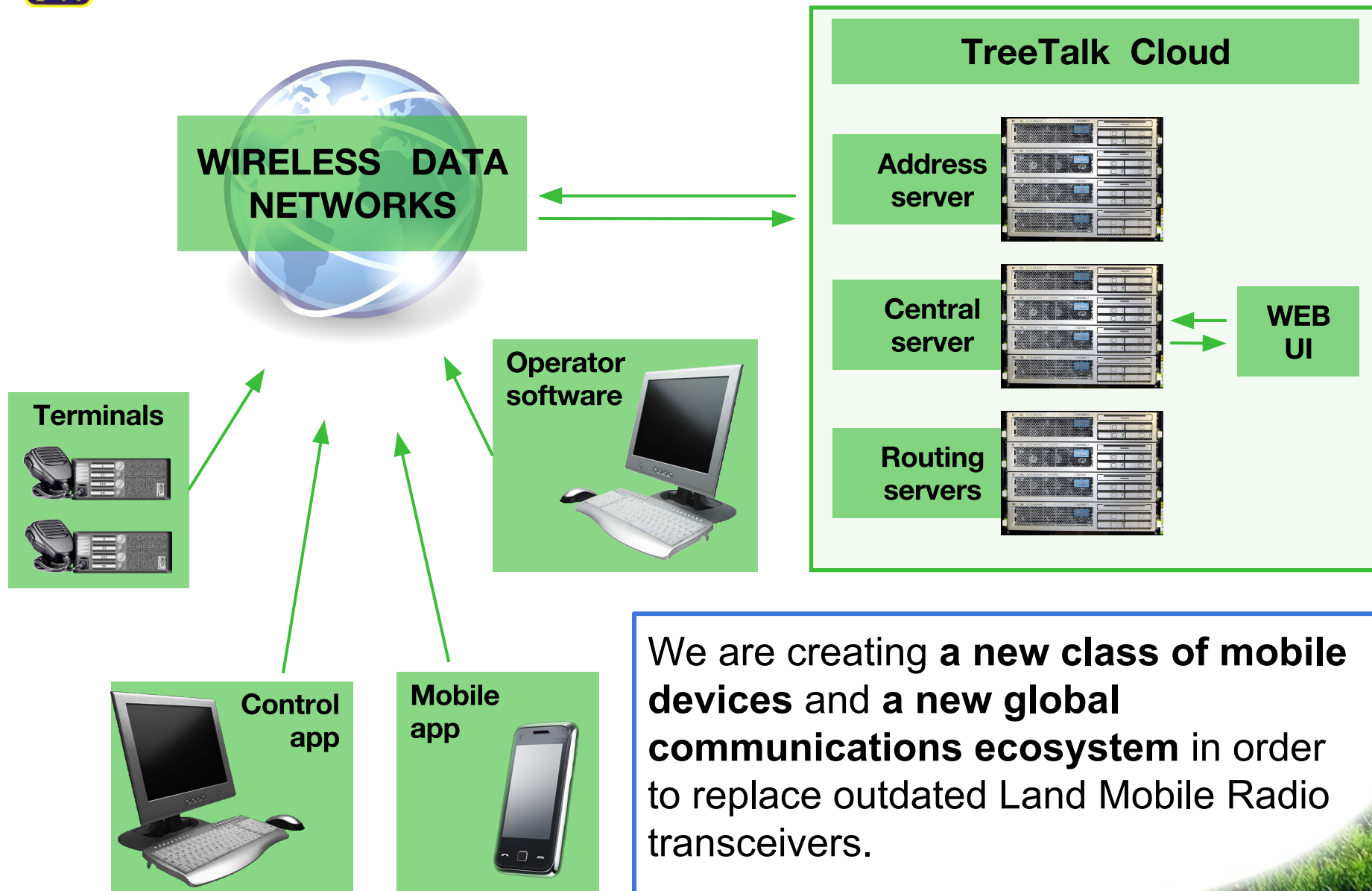


We are going to transplant the advantages onto the new technical platform.





# TreeTalk Ecosystem



We are creating a **new class of mobile devices** and a **new global communications ecosystem** in order to replace outdated Land Mobile Radio transceivers.



# The Terminal



Repeat button

178\* mm

50\* mm

PS unit



12V/24V

\* ISO 7736 / DIN 75490 compliance

**\*\* Intellectual Property registered:**

United States Patent N 9,338,275

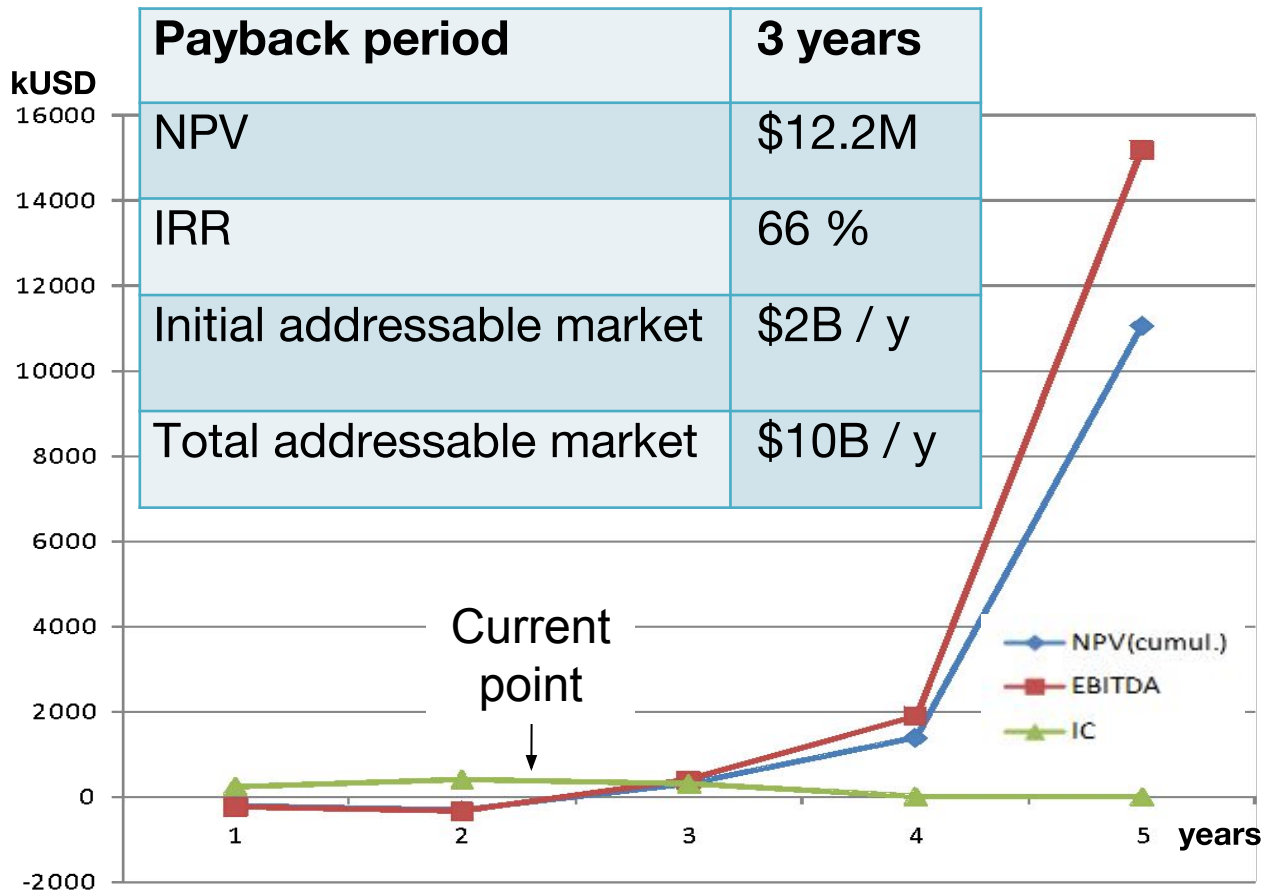
RF UM Patent N 121411

PCT/RU2013/000062, WIPO WO 2013/162414 A1, US 2015/0072724 A1

+ numerous know-hows...



# Financial Model



Sales of our web-services



\$5 / mo

Sales of our software



\$99

Sales of our devices



\$249





# Market Fit and Competition

	Digital sound quality	Cheap exploitation	Quick launch	Spectral efficiency	Coverage area
<b>TreeTalk</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>
<b>Analog radios</b>		<b>V</b>			
<b>Digital radios</b>	<b>V</b>	<b>V</b>			
<b>Digital trunked systems</b>	<b>V</b>				<b>V</b>

We offer a modern and convenient solution to meet the existing needs of the customers. We have no direct competitors for our solution, as there are no similar devices. Indirect competitors are worse.



# TreeTalk Core Team

## TreeTalk Team



Igor Yanovskiy  
System Architect,  
Software developer  
Siberian Institute  
of Technology,  
1992  
Founder, CEO

## TreeTalk Team



Maria  
Yanovskaya  
Web and  
industrial  
designer  
Siberian Federal  
University, 2012  
Co-founder

## TreeTalk Team



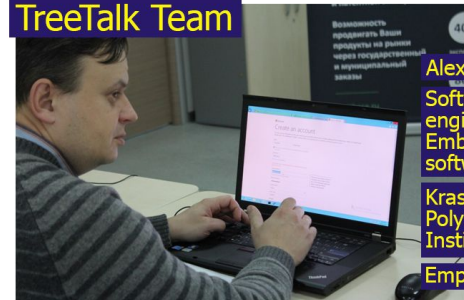
Nicholas  
Dzel'tovskiy  
Software  
engineer /  
Servers, web,  
c++, python  
Khakas State  
University, 2000  
Employee

## TreeTalk Team



Dmitry Potylitsyn  
Electronics  
Engineer  
Krasnoyarsk  
State  
Technical  
University, 2002  
Employee

## TreeTalk Team



Alex Podrezenko  
Software  
engineer /  
Embedded  
software, c++  
Krasnoyarsk  
Polytechnical  
Institute, 1992  
Employee

I.Y.: "I was fortunate to gather a team of highly educated professionals."



# Traction and Plans

July 2014: Investment of founder.

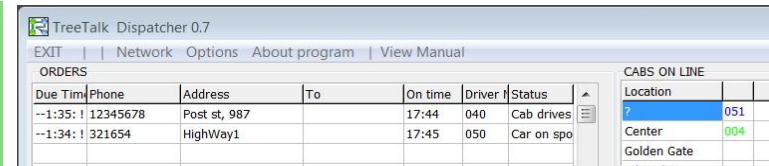
Dec 2014: Grant for R&D has been won in the “Start” contest.



Apr 2015: First working prototype of the Terminal is ready.



May 2015: First prototype of the dispatcher's software is developed.



Feb 2016: The first R&D study, funded by FASIE, was finished.

May 2016: U.S. Patent N 9,338,275 was issued.



2016 Q2: Field tests.

2016 Q3: Web UI and server infrastructure. Pilot batch of terminals.

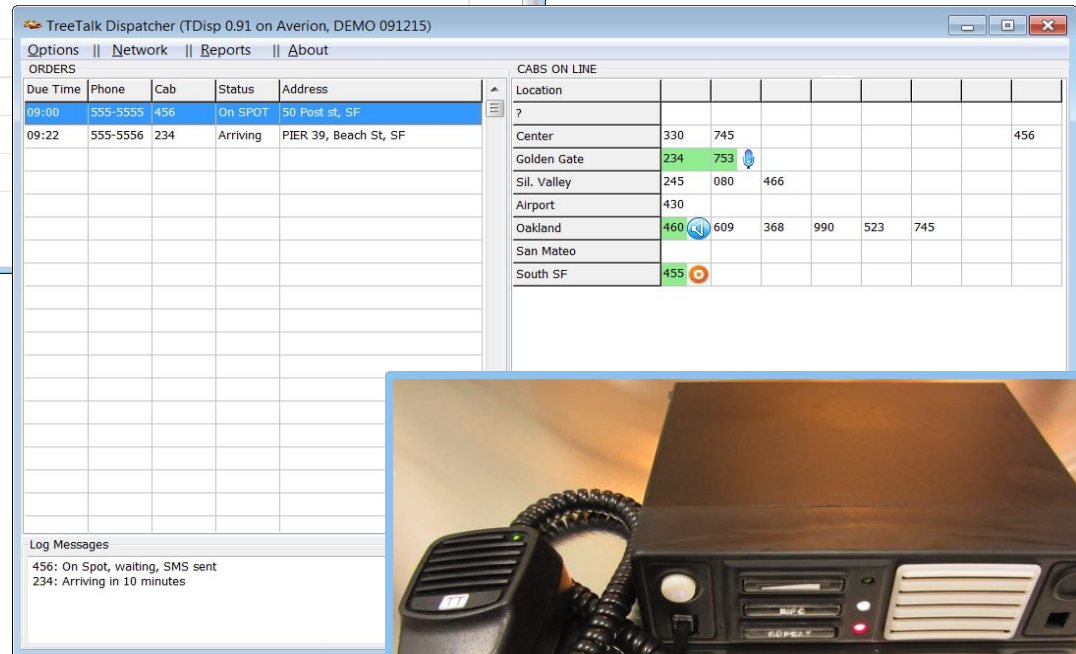
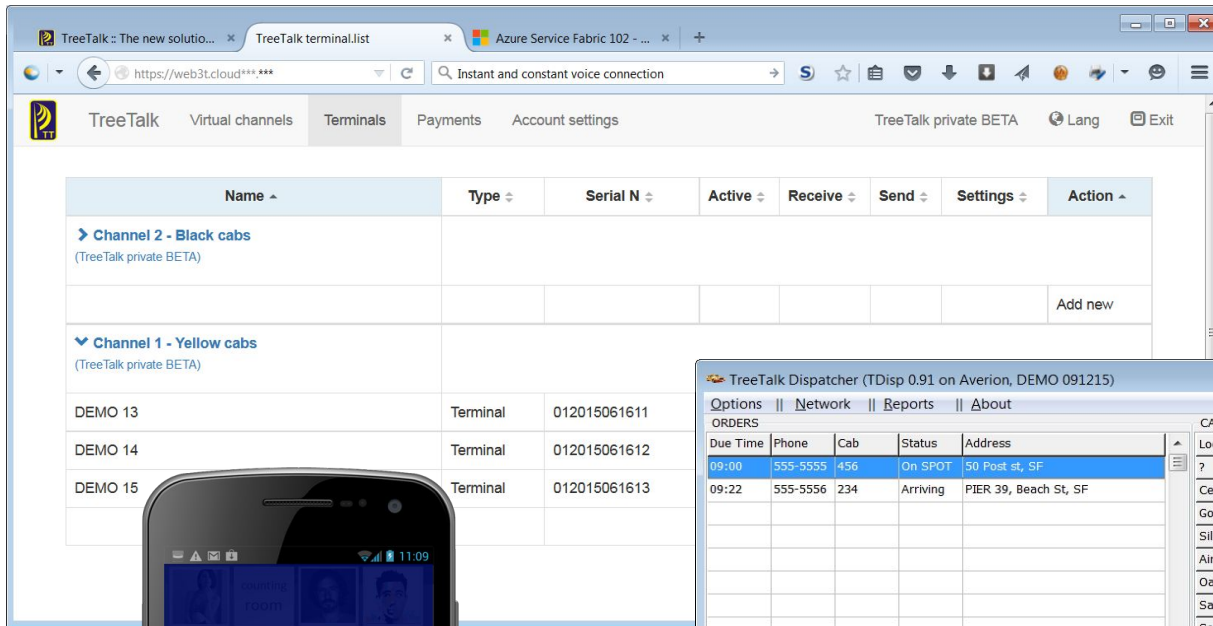
2016 Q4: Final version of the **Terminal One** ready for production.





# TreeTalk: Wireless Voice Terminal and System

*Welcome to the future of professional communications!*





# Appendixes





# Financial Projections

Capital required to obtain first sales	\$0.45M
Capital required to break-even	\$1.2M
Initial addressable market	\$2B / year
Total addressable market	\$10B / year
Customer lifetime value (3-year basis)	\$280
<b>Payback period</b>	<b>3 years</b>

We are **not** dreaming up any new market.

**There is** a huge niche in the B2B segment already, developed and growing.



# TreeTalk Leaflet / Projected Prices

## TreeTalk Terminal

The design of our device is developed and patented, based on customer feedback, to fit both - cars and trucks.



- no outer antenna
- fit the standard 1 DIN
- universal 12/24 volt PSU



GPRS/EDGE/UMTS/LTE, WiMAX, HiperMAN iBurst, NGH, FreedomPop and many other compatible.

### Prices:

Terminal TT-1 \$249  
Terminal TT-1-GPS \$269

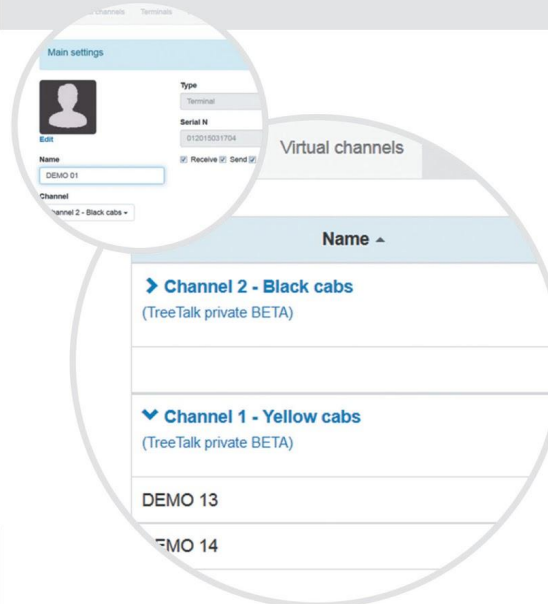
## Web front-end

Web front-end provides an access to the user's account.

User can create the virtual channels, add the terminals into them and manage them easily: to connect, to disconnect, to move etc.

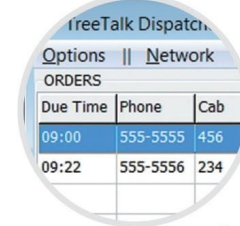
### Prices

Account support	\$0.00
Unit Software rental Daily for each, up to 4	\$0.00
Unit Software rental Daily for each, from 5th	\$0.10
GNSS Software rental Daily, for each	\$0.12

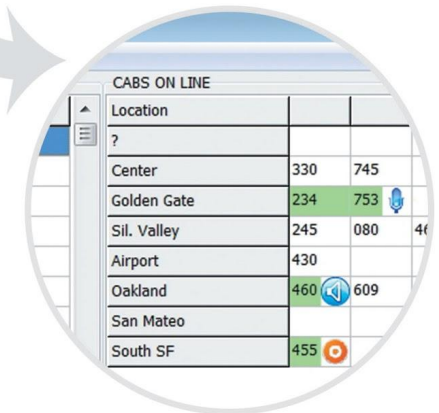


## Dispatcher's application

Dispatcher's app combines the standard functionality for orders handling with new voice functions.



The dispatcher can see  
- who is online and where.  
The dispatcher can see - who is calling, and listen to missed messages.  
The dispatcher can use a group call or selective call.



### Prices

Dispatcher Software setup Once	\$99.00
Dispatcher Software rental Daily	\$0.33

\* MSRP. Some taxes and fees may be applicable additionally for the certain locations of buyers.  
Data traffic may need be paid in addition



# TreeTalk Winter Tests



<http://tree-talk.com/wp/>





# TreeTalk on #KEF2016

<http://tree-talk.com/wp/>

