



# Terake Workfields with Deere

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KAREL KUNINGAS

CEO AND FOUNDER

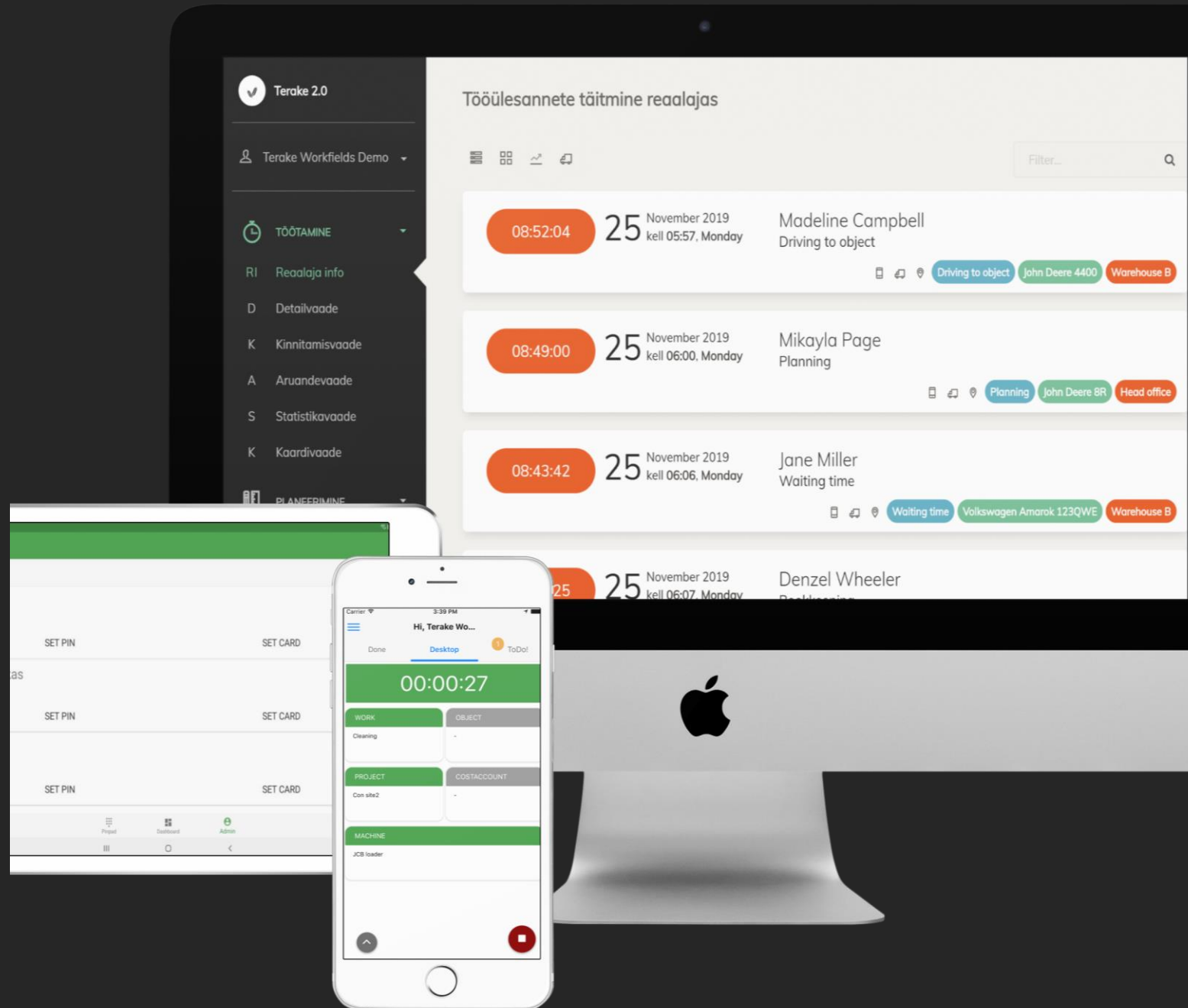
# Terake task and time tracking on workfields

Work information with machine information

Real-time information

Digital field book with mobile working time tracking on the field!

Wwill help you determine if the work has actually started and completed.



# Digital timesheets

Tasks performed and tasks ahead

All service units and their information in one place.

Operational Plans and Task Management help quickly and efficiently coordinate teams on fields

**Terake 2.0**

Kinnitamis vajavad tööülesanded

2017-12-01 to 2019-01-03

Kestvus	Algusaeg	Lõpuaeg	Pausid (sek)	Töötaja	Töö parameetrid	Kulukoht	Kinnitamine	Tegevused
00:00:59	29.01.2018 10:44	29.01.2018 10:45	0	Etalon.Agro AS	Arvestus, Töökoht, 10/15/1000000	Arvestus	Arvestus	Arvestus
00:00:22	29.01.2018 11:07	29.01.2018 11:07	25	Etalon.Agro AS	Arvestus, Töökoht, 10/15/1000000	Arvestus	Arvestus	Arvestus
00:01:30	30.01.2018 15:36	30.01.2018 15:36	0	Etalon.Agro AS	Arvestus, Töökoht, 10/15/1000000	Arvestus	Arvestus	Arvestus
02:04:51	03.04.2018 08:06	03.04.2018 10:11	0	Tegre Jüht	Arvestus	Arvestus	Arvestus	Arvestus
00:05:53	04.04.2018 14:53	04.04.2018 14:53	0	Etalon.Agro AS	Arvestus, Töökoht, 10/15/1000000	Arvestus	Arvestus	Arvestus

**Terake Workfields**

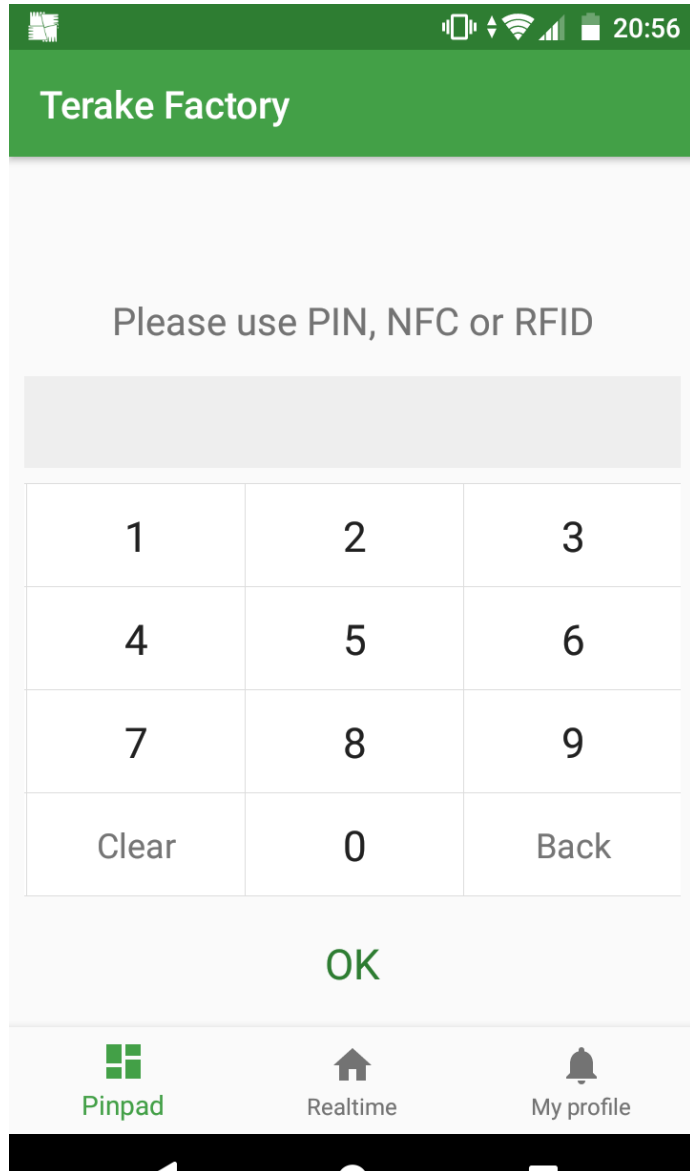
Works waiting approval

	15.10 T	16.10 K	17.10 N	18.10 R	19.10 L	20.10 P	21.10 E	22.10 T	23.10 K	SUM
Alar Selgis	2.1 / 9	11.6	6.9	7.8			7.8			9.9 / 35.3
Alar Urvik	7.2	0.9 / 11	8.4	1.4 / 8.9	7.9	9.6	10.4			22.3 / 43.5
Allar Mäe	12.5	0.8 / 12.1	4.5 / 7	11.2	7.5	9.8	10			15.3 / 57.5
Andreas Kalde						5.7				5.7
Andres Kukki	9.1	9.1	10.2	9.1			9.1			46.6
Andri Tsink	11.8	12	12.5	11.9			10.3			10.3 / 48.2
Ants Moorme	11.3	10.9		0.9 / 6.6			8.4			9.3 / 28.9

**Brigade**

✓	Leanna Ingram	05:16:26
	Planting Ford Transit 444CDE	
○	Aldo Becker	05:20:48
	Cleaning Claas Combine 990, Warehouse A	
○	Eric Zavala	05:08:26
	Driving to object John Deere 3300, Head office	
✓	Nolan Bates	05:13:50
	Construction works	
○	Mikayla Page	04:55:13
	Plowing MAN Truck 789BBB, Warehouse A	
✓	Aaron Wiley	05:01:04
	Cleaning	
✓	Richard Henson	05:47:54
	Planning John Deere 3300, Head office	

Start / Set Stop



# Terake Factory APP for local crew

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It can be placed on the wall of a production building and employees log in when they arrive and choose work tasks

We use the advantages of modern technologies like smartphones, NFC tags (Near Field Communication) to make the filling and collecting of quality control sheets as easy as possible.

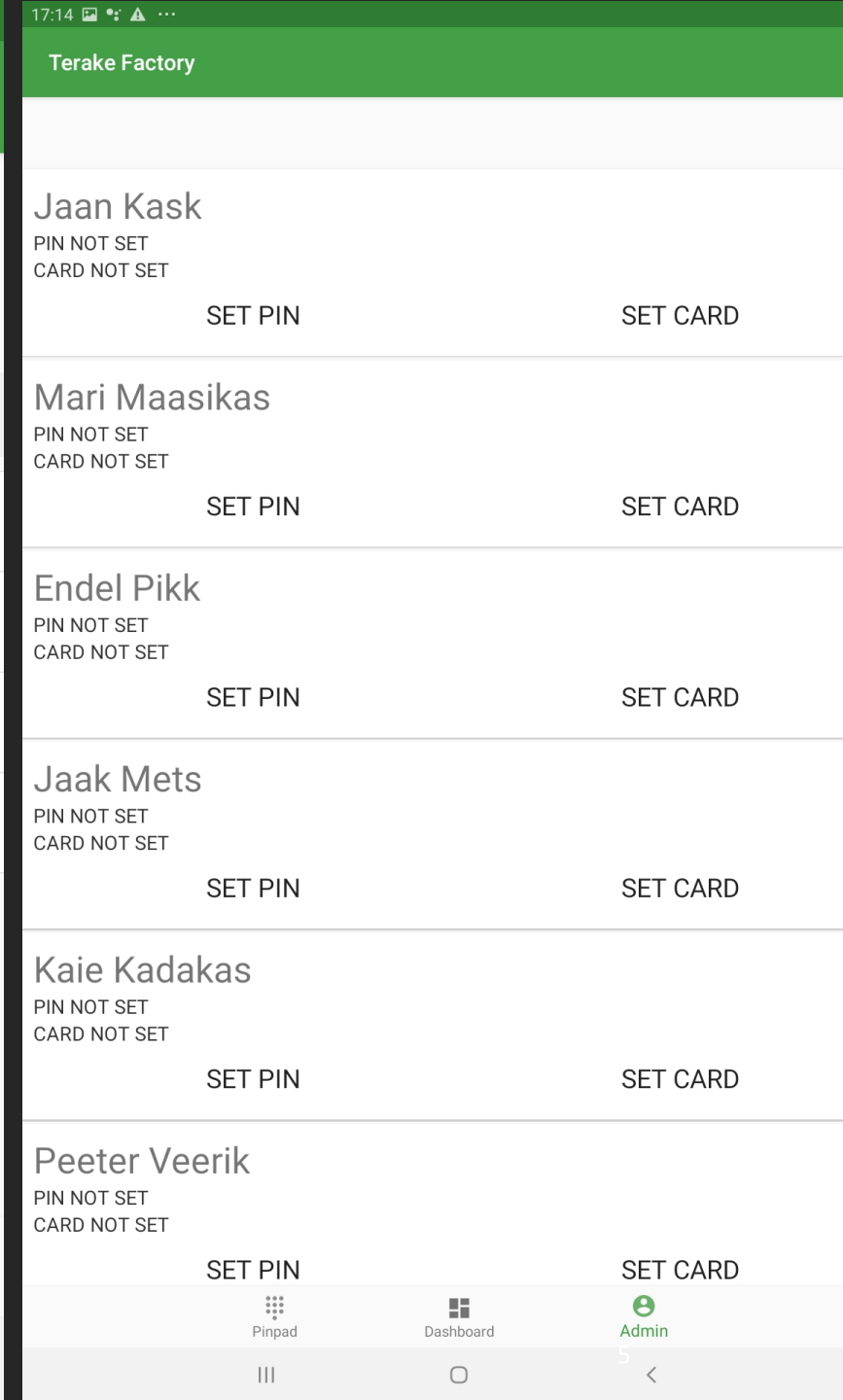
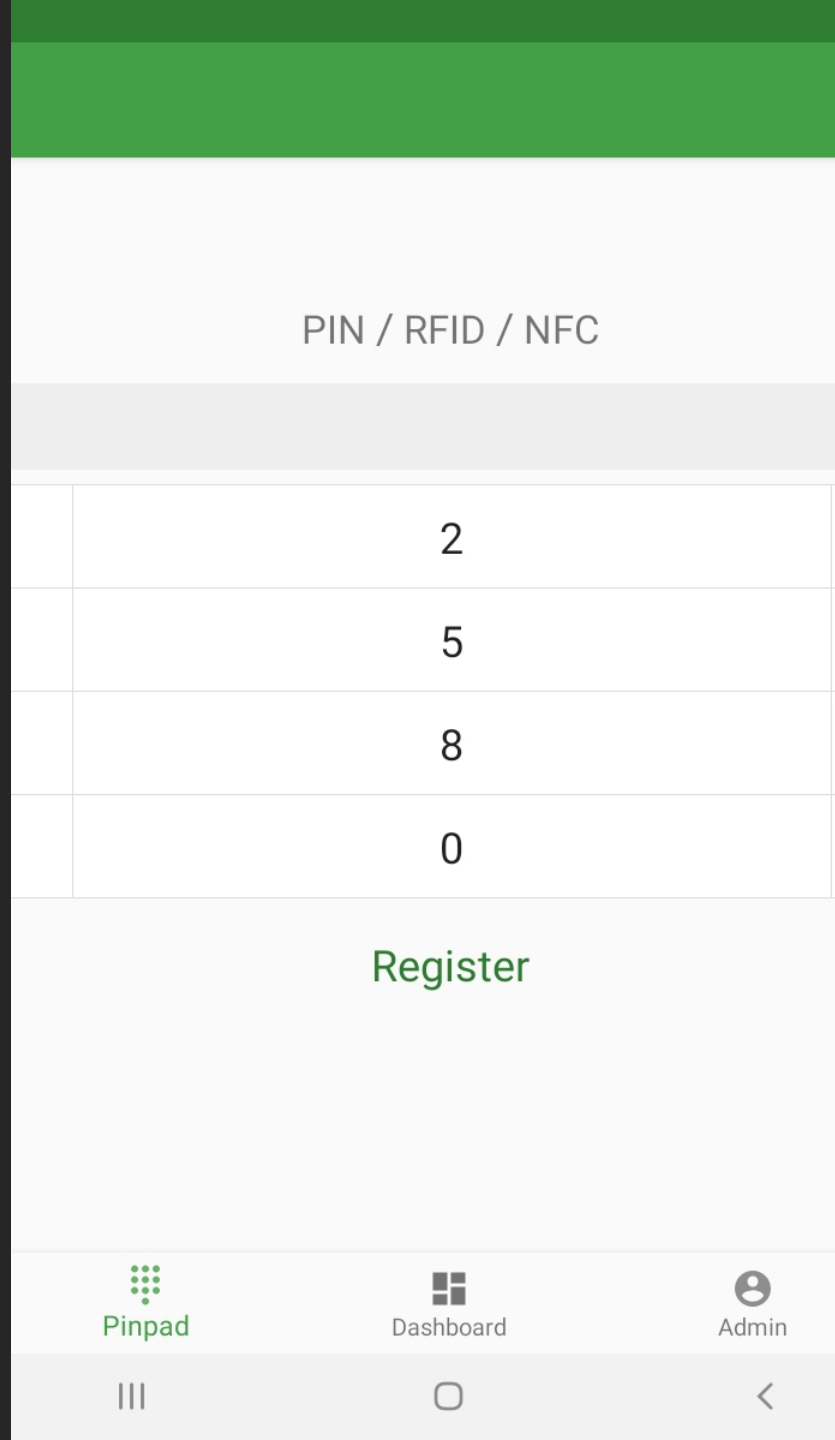
# Terake Factory

The solution for factory and  
production workshops

You can use a PIN, RFID card or  
NFC tag

Accurate work schedule and  
task management environment

All arrivals and departures of  
employees are online and the  
activities performed are  
accounted for in working time  
accounting



# Maintenance units

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All service units and their information in one place.

Tasks performed and tasks ahead

Terake tracks more than just working time. Employees can easily map their work against objects and operations.

Operational Plans and Task Management help you quickly and efficiently coordinate your team on fields



Terake 2.0

ADMIN

FIELD MODULE

F

Fieldbook

FA

Field admin

WAM

Works and materials

AI

Agrifield import

CR

Crop rotation

FOM

Fields on map

FP

Fieldwork planning

MPU

Material planned usage

Terake Workfields

Start work

et

Logout

Crop rotation

☒ Kõik taotlejad

☐ HIILASMAA OÜ

☐ Kapek Tootmine OÜ

☐ Melmilk OÜ

☐ OÜ LINIKA

☐ OÜ SADALA MAHE

☐ OÜ Vaiatu Agri

☐ Rääbise POÜ

☐ SADALA AGRO OÜ

☐ Display payee name

on screen

Q Show

set view (3)

open in Excel

Detailed search

Filter...

<input type="checkbox"/>	Name	Field number	Reg no	Location area	2015	2016	2017	2018	2019
<input type="checkbox"/>	Kooli	1	64952761902	Sadala	* SUVINISU ALLAKU	Mais	Mais	Suvinisu	Varane oder
<input type="checkbox"/>	Kooli rohumaa	1,3	64952754462		* LIBLIKÕIELISTE JA	Põldhein II	Põldhein III	Põldhein IV	Püsirohumaa
<input type="checkbox"/>		2	65052713434	Sadala	* SUVINISU ALLAKU	Mais	Mais	Suvinisu	Varane oder
<input type="checkbox"/>	Adami	3	65052616757	Sadala	* SUVINISU ALLAKU	Mais	Mais	Suvinisu	Varane oder
<input type="checkbox"/>	Soodla	4	64952680848	Lauda	* LIBLIKÕIELISTE JA	Põldhein III	Põldhein IV	Taliraps	Talinisu
<input type="checkbox"/>	Vellingu	6	65052416244	Kodismaa	* PUNANE RISTIK (V	Põldhein II	Põldhein III	Põldhein IV	Taliraps
<input type="checkbox"/>	Sigala	7	65052328697	Litsemaa	* TALINISU ALLAKU	Mais	Põldhein I	Põldhein II	Põldhein III
<input type="checkbox"/>	Vanasepa	8	65052481580	Litsemaa	* TALINISU ALLAKU	Mais	Põldhein I	Põldhein II	Põldhein III
<input type="checkbox"/>	Põldi	9	64952655800	Sadala	* SUVINISU ALLAKU	Mais	Põldhein I	Põldhein II	Põldhein III

Field module

Fieldbook

Crop rotation

Works and materials

Fieldwork planning

TERAKE WORKFIELDS

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Terake 2.0



Karel Kuningas

Workers and facilities on map



REPORTS

Google

Kaardiandmed ©2019 Pilt ©2019, CNES / Airbus, Landsat / Copernicus, Maxar Technologies | Kosutustingimused | Teatage veast kaardil


# Increase Efficiency







Connect your fields to your real-time office

Better budgeting decisions and harvesting conclusions


Check your costs by crop, field, and company







 Terake Workfields Demo

-  WORK
  - RI Realtime info
  - DV Detail view
  - AV Approval view
  - RV Report view
  - SV Stats view
  - MV Map view
-  PLANNING
-  ROSTER
-  REPORTS
-  ADMIN
-  FIELD MODULE

### Currently ongoing works

Filter... 

#### Vehicles last telemetry data

MAN Truck 123ABC
Odometer display (km): 82791
21.11.2019 18:40:08, @Sky FMS
Fuel level (liters): 40
21.11.2019 18:08:06, @Sky FMS
Ignition (on/off): 1
21.11.2019 19:14:34, @Sky FMS
#4892

# API Integration

We are using API for reading machine listing data, machine location data, machine engine hours, field base data, field boundaries.

<div>John Deere 4400</div> <div>Engine hours: 735</div> <div>21.11.2019 19:01:23, @John Deere API</div> <div>Fuel level (liters): 222</div> <div>21.11.2019 18:58:02, @Sky FMS</div> <div>#4896</div>	<div>Scania</div> <div>Odometer display (km): 63618</div> <div>21.11.2019 18:45:52, @Sky FMS</div> <div>Fuel level (liters): 67</div> <div>21.11.2019 19:11:17, @Sky FMS</div> <div>Ignition (on/off): 1</div> <div>21.11.2019 19:11:51, @Sky FMS</div> <div>#4897</div>	
<div>MAN Truck 789BBB</div> <div>Odometer display (km): 114812</div> <div>21.11.2019 18:37:48, @Sky FMS</div> <div>Fuel level (liters): 84</div> <div>21.11.2019 19:06:13, @Sky FMS</div>	<div>Kramer loader</div> <div>Odometer display (km): 39473</div> <div>21.11.2019 18:22:54, @Sky FMS</div> <div>Fuel level (liters): 108</div> <div>21.11.2019 19:02:01, @Sky FMS</div>	<div>John Deere 6900</div> <div>Engine hours: 891</div> <div>21.11.2019 18:51:53, @John Deere API</div> <div>Fuel level (liters): 116.9</div> <div>21.11.2019 18:51:18, @Sky FMS</div>

# Integration with ERP systems

There is no more need for collecting data manually and spending hours on re-entering it into various systems.

Digital timesheets provide you with a complete picture of work time and resources usage

Terake 2.0 - Chromium

erake.com

☒ Facility ID

☒ Facility name

☐ Facility ID2

**Implement**

☒ Impement ID

☒ Implement name

☐ Implement ID 2

**Costaccount**

☐ Cost account ID

☐ Cost account name

☐ Cost account ID2

**Workobject**

☐ Workobject ID

☐ Workobject name

☐ Workobject ID2

**Project**

☐ Project ID

☐ Project name

☐ Project ID2

**Maintenance unit**

☐ Maint. unit ID

☐ Maint. unit name

☐ Maint. unit ID2

**Field**

☐ Field ID

☐ Agrifield ID2

☐ Field name

☐ Field number

☐ Field size

☐ Crop ID

☐ Crop name

☐ Crop ID2

**Material consumption**

☐ Material

☐ Unit

☐ Amount total

☐ Amount per ha

**Telemetry**

☐ Odometer start

☐ Odometer end

☒ Kilometers total

☐ Engine hours start

☐ Engine hours end

☒ Engine hours total

☐ Fuel level start (l)

☒ Fuel level end (l)

☒ Fuel filling

☒ Fuel consumption (l)

Kilometers total

Engine hours total


Fuel level end (l)


Fuel filling


Fuel consumption (l)

TEHNOLOGIA RAKENDUSKESKUS OÜ


10

 set view (12)

 open in Excel

 Detailed search

repa



From	To	Worker	Duration	Worktime	Worktype	Facility	Costaccount	Department	Record count
18.10.2019	25.10.2019	Aaron Wiley	04:34:36	4.58	Vehicle repairing	Volkswagen Amarok 123QWE	Workshop	-	1
18.10.2019	25.10.2019	Leanna Ingram	03:33:09	3.55	Vehicle repairing	Crane	-	-	1
18.10.2019	25.10.2019	Aldo Becker	05:48:19	5.81	Vehicle repairing	Volkswagen Amarok 123QWE	-	-	1
18.10.2019	25.10.2019	Richard Henson	07:36:55	7.62	Vehicle repairing	John Deere 3300	Workshop	-	1
18.10.2019	25.10.2019	Aaron Wiley	01:01:01	1.02	Vehicle repairing	MAN Truck 789BBB	-	-	1
18.10.2019	25.10.2019	Madeline Campbell	05:16:19	5.27	Vehicle repairing	MAN Truck 789BBB	Service	-	1



Terake 2.0



Jaan Kask



WORK



PLANNING



ROSTER



REPORTS



ADMIN



FIELD MODULE

Workhours counting method

☒ workhours counted for work start date ☐ workhours counted by calendar date (time over 23:59:59 counted for next date)

Dimensions:

☐ Record

☒ Worker

☐ By date

☐ Worktype

☒ Facility

☐ Implement

☐ Field/object

☐ Costaccount

☐ PRIA applicant

☐ Crop name

☐ Maintenance unit

☐ Customer

☐ Department

Last 7 days From yesterday Yesterday Today Current month Previous month Next 7 days

2019-11-01

2019-11-30

on screen

Show

set view open in Excel Detailed search

Filter...

# Machine data

The information collected will be added to the job automatically. There is also an overview of motohours that are not reflected in the work (sidejob). Advanced engine hour accounting across the system provides valuable reporting for each item where the machine has worked.

From	To	Worker ID	Worker	Duration	Worktime	Machine ID	Machine ID2	Machine	Fuel filling	Engine hours	Kilometers	Record c
01.11.2019	30.11.2019	18998	Peter Smith	167:14:24	167.24	198	M8832	John Deere 6200	1229	228.3	3772.9	46
01.11.2019	30.11.2019	729	Aldo Becker	127:06:36	127.11	459	F232	Ford Transit	831	-	1829	23
01.11.2019	30.11.2019	812	Aaron Wiley	157:55:12	157.92	290	K939	Man Truck	2722	128	2231.9	67
01.11.2019	30.11.2019	772	Maximillian Pittman	181:58:48	181.98	338	M192	Volvo Truck	722	318.32	4899.9	28
01.11.2019	30.11.2019	128	Nolan Bates	117:12:36	117.21	2238	N1227	John Deere Tractor	762	111.13	2211.1	83


Table statistics


	SUM	AVG	MED	MIN
Worktime:	751.46	150.29	157.92	117.21




# Transport

Last 7 days From yesterday Yesterday Today Current month Previous month Next 7 days


 2019-11-14






















 2019-11-21

on screen ▼

 Show

 set view (1)  open in Excel  Detailed search

Filter... 

	Transport time	Worker	Waybill	Material	From point	To point	Amount (empty)	Amount (full)	Weight amount(t)	Cargo count	Odometer start	Odometer end	Actions
	14.11.2019 03:07	Nolan Bates	411DD2	Tradecorp ZN MN	Ambo Pedja	Allee väike2	7	16	9	1	141309	141413	 
	14.11.2019 03:17	Demo Viewer34	026CB4	Kaer Ivory C1	Head office	Andrese	7	34	27	2	92977	93174	 
	14.11.2019 03:51	Demo Viewer34	16AA10	Suviraps	Station1	Head office	10	21	11	6	166052	166252	 
	14.11.2019 06:28	Demo Viewer34	000E2C	Talinisu Toras C1	Allee suur	Adami	5	21	16	9	163021	163152	 
	14.11.2019 07:53	Leanna Ingram	66EAB9	Nutrikompleks Platinum 12-41-8	Ambo Pedja II	Bammi Rohumaa	9	38	29	8	100829	100914	 
	14.11.2019 08:47	Demo User37	159A6E	Hernes Astronaute C1	Warehouse B	Andrese	10	14	4	9	103721	103795	 
	14.11.2019	Denzel											 

# Measurable benefits

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TASK MANAGEMENT SAVES 15  
MINUTES OF PAPERWORK  
TIME FOR EVERY EMPLOYEE



TIME TRACKING SAVES 15-35  
MINUTES (3% - 8%) OF NON-  
PRODUCTIVE WORK FOR  
EVERY EMPLOYEE



THIS IS MINIMUM OF 10  
HOURS IN MONTH PER  
EMPLOYEE



FLEET AND TEAMS  
MANAGEMENT AVOIDS  
USELESS TIME AND FUEL  
COSTS



REAL TIME OVERVIEW,  
INCREASED WORK ETHICS,  
AVOID MISSING/WRONG  
DATA

## Business model

Worker

Machinery / Facility

Filed / Object



## Users feedback

The  
numbers  
say:

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70% implemented Terake  
workfields within 2 weeks

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100% implemented Terake  
within 1 month

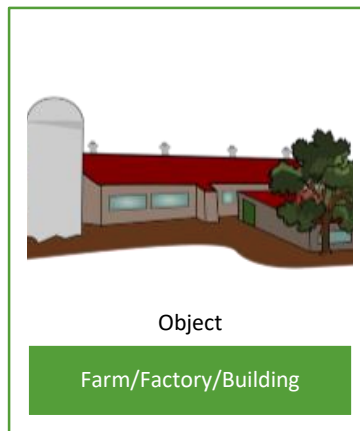
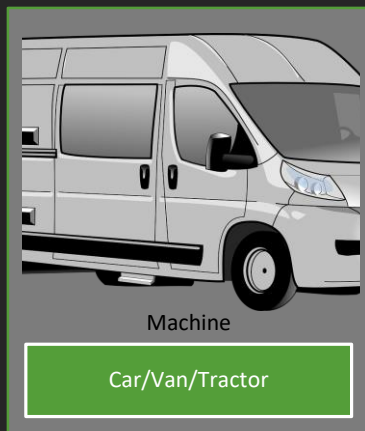
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500-1000% ROI

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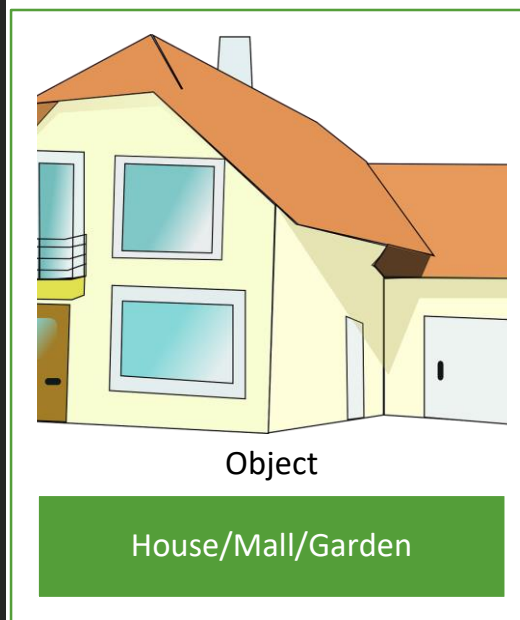
70% less time spent  
finding information

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# Customers

- SERVICE AND MAINTENANCE
- AGRICULTURE
- MANUFACTURING
- INSTALLATION COMPANIES
- CONSTRUCTION





9 € month / active user



**The main advantage is the logical, simple and user-friendly application**



**without guidance, every user can use the Terake workfields application to its full functionality and all required and expected registrations will be done.**

# Product/Service

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Terake Workfields  
Companies with  
mobile workers

Terake Factory  
For  
manufacturing



TERAKE WORKFIELDS

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KAREL KUNINGAS

## Next steps

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- Integrations with ERP software
- **Business Discovery (BI)**
- Precision land management
- Machine Learning Solutions