



**VEHICLE**  
MANAGEMENT

# Kásiporynnyń kólik infraquylymyn basqarý



# Biz týraly

AG TECH-it, óndiristi avtomattandyrý jáne biznes-analitika júieleri salasyndaǵy inovasiyalyq baǵdarlamalyq jáne tehnikalyq qamtamasyz etýdiń bilikti jetkizýshisi jáne radionavigasiyalyq jabdyqtyń ozyq jetkizýshisi.

DMMS-bul óndiristi jedel, qaýipsiz jáne tiimdi basqarýǵa arnalǵan qural, sonymen qatar personaldyń qaýipsizdigin qamtamasyz etý jáne ónerkásiptik kásiporynnyń biznes-prosesteriniń ónimdiligin arttyrý úshin tiimdi sheshim.

DMMS modýlderini jabdyqtyń jumys kúiin jáne personal men jyljymaly tehnikanyń negizgi kórsetkishterin kórsete otyryp, interaktivti kartadaǵy obektilderdiń ornalasýyn naqty ýaqyt rejiminde anyqtaýǵa, qyzmetkerlerdi apattyq jaǵdailar týraly habardar etýge, barlyq kórsetkishter boıynsha derekterge monitoriń júrgizýge, beinebaqylaý júrgizýge, aýanyń jai-kúiin avtomatty jáne úzdiksiz ólsheýge, jabdyqtyń jai-kúiin taldaýǵa jáne baqylaýǵa, sondaı-aq personal men tehnikaǵa tapsyrma berý múmkindigi.



**Vehicle Management** - óndiristik kásiporyndardyń kólik infraqurylymyn baqylaý jáne baqylaý boıynsha keń fýnksionaldyǵy bar dmms júesiniń modýli

# Negizgi fýnksional



Otyń men tehnikanyń jumysyn baqylaý



Pozisialaý



Elektrondyq narád-tapsymalar

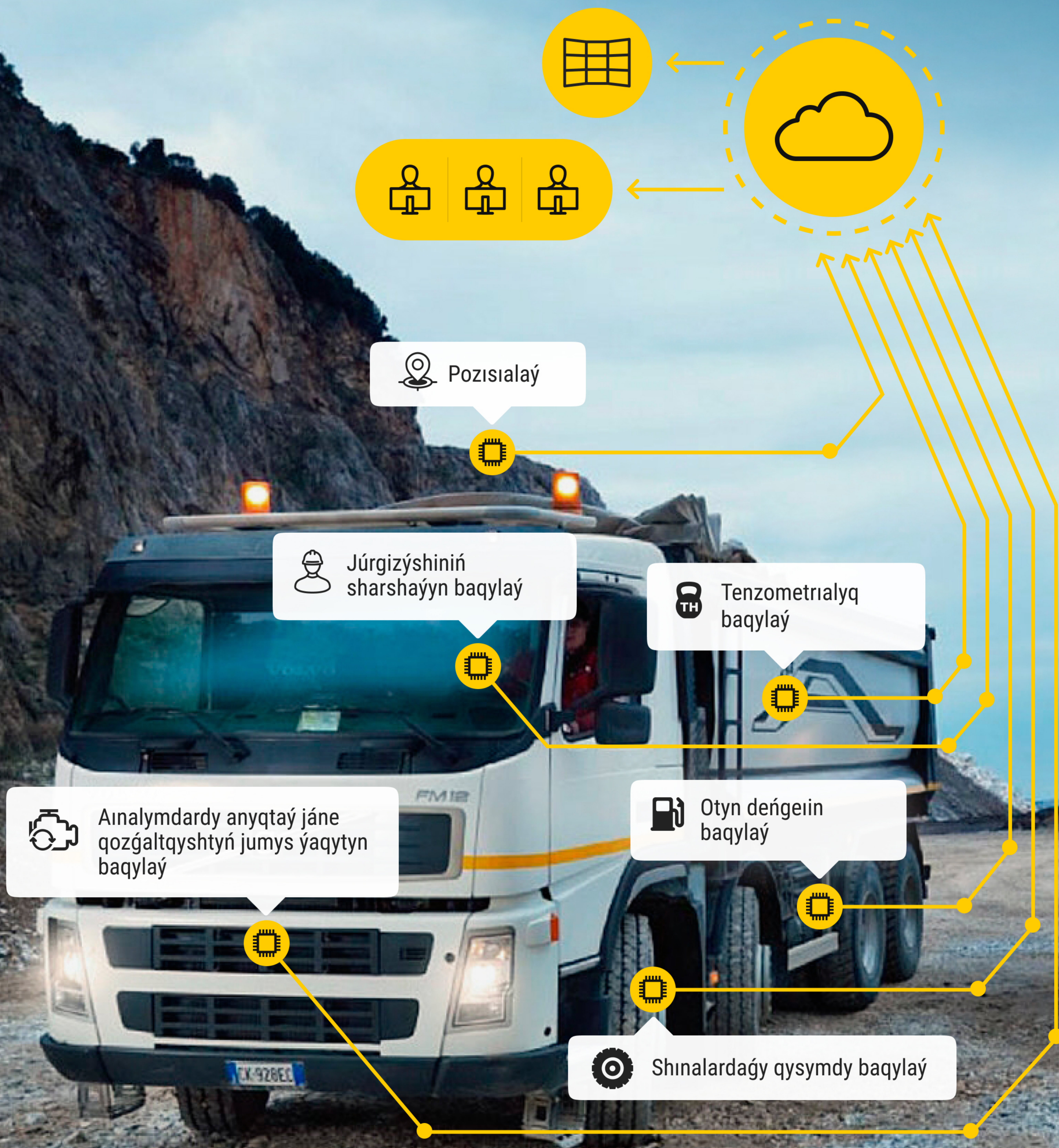


Qyzmetkerlerdiń jaǵdaiyn baqylaý



Oqıǵalar men esepsterdi qurý

# Tehnikany baqylaýğa arnalğan dachikter





## Otyñ men tehnikanyñ jumysyn baqylaý

- Ózdiginen júretin jabdyqtyñ dachıkterinen kórsetkishterdi jinaý, saqtaý jáne óńdeý (jailastyry, qozgaltqysh, tarazy, tenzodachıkter, JJM dachıgi jáne t.b.)
- Narád-tapsyrmanyñ jáne júrgizýshiniñ óndiristik baǵdarlamasynyñ oryndalýyn baqylaý
- Tehnika men jekelegen toraptardyñ jai-kúiin monitorıńteý
- Tehnikanyñ jumysy men qozǵalysy týraly esepter daiyndaý



## Jailastyry

- > 24/7 jailastyry jáne IloT infraquylymy arqyly kólik quraldarynyń barlyq túrlerin monitorińtey
- > Tehnika men personal qozǵalysynyń elektronдық jýrnaly
- > Qozǵalys baǵyttaryn qurý
- > Infografıka túrindegi esepter
- > Derekterdi muraǵattaı



ТЕКУЩЕЕ НАРЯД-ЗАДАНИЕ №10816		Исполнение наряда 75%		Эфф-сть планирования 96%		Всё месторождение		1.10.2020 31.10.2020		
Рабочее место	РМ опасно	Маршрут	ВИД РАБОТ	Операции	ОБЪЕМ РАБОТ факт/план/исп./отклон.		Ед. изм.	ПРОГРЕСС факт/план/Δ реглам.		Статус
1	Промежуточный склад НП	Нет	Заправка буровой установки <a href="#">caterpillar 440b №108</a>	16 / 16	200 200	100% 0Δ	т	✓	100 / 100% Δ +36 мин	✓
2	Сектор 18, участок сепарации	Нет	Заправка дизельного <a href="#">электрогенератора Hitachi 1200w №19</a>	3 / 4	66,4 150	87% 9,7Δ	т	40%	43 / 40% Δ -13 мин	▶
3	Производственная площадка №3	Да	Заправка <a href="#">автосамосвала CAT AD741 №2</a>	0 / 8	0 100	0% 100Δ	т	0%	0 / 0%	⌚



## Elektrondyq narád-tapsyrmalar

- Jumys túrleri, operasiolar jáne jumys oryndary boıynsha oryndalatyn jumystardy josparlaıy, kelisıy jáne baqylaıy
- Narád-tapsyrmalardyń baspa jáne elektrondyq nysandary
- Narád-tapsyrma boıynsha tehnikany bekitıy
- Tapsyrmalardy oryndaıyǵa ruqsattar júrgizıy
- Qysqa jáne uzaq aralyqtarda narád-tapsyrmalardy oryndaıy túraly esepter daiyndaıy
- Jiyntyq esepter daiyndaıy

	<b>Konstantinopolsky F.I.</b> ShuttleBus №108 Bus Driver Production Line №3
	<b>Madhupatov I.N.</b> Kamaz Fuel Truck , №108 Fuel Truck Driver Route Warehouse НП
	<b>Zhaksybekov A.M.</b> Niva 4x4, №16 Assistant Master Technician Sector 18, Separation Zone
	<b>Dovganev F.A.</b> ShuttleBus №108 Bus Driver Production Zone №3
	<b>Muhamedov A.K.</b> Toyota Hilux №108 Driver Electric Substation №9
	<b>KARIMSAKOV Nurlan Serikovich</b> Kamaz 110, Tractor Technician Sector 18, Separation Zone

Search
Profiles
1.10.2020  
31.10.2020

**MADHUPATOV Ivan Dobrynevich**  
AUTOMATION DEPARTMENT  
Fuel Truck Operator

SHIFT 1 (21:00 - 7:00)

**ON SITE**

**SAFETY** 0,93 +0,1Δ

**HEALTH** 1,00 +0,1Δ

**KPI** 98,7 +0,1Δ

**Orders** 3/7 75%

**Σ** 97% +3%

**SAFETY VIOLATIONS**

	<b>PAYDABEKOV Rinat Kibraevich</b>	SHIFT -	SICK	<b>SAFETY</b> 0,93 +0,1Δ	<b>HEALTH</b> 0,81 +0,1Δ	<b>KPI</b> 98,7 +0,1Δ
	<b>VALIKHANOV Askar Velorienovich</b>	SHIFT -	OFF	<b>SAFETY</b> 0,73 +0,1Δ	<b>HEALTH</b> 1,00 +0,1Δ	<b>KPI</b> 98,7 +0,1Δ
	<b>UDACHIN Fedor Afonasyevich</b>	SHIFT 2 (21:00 - 7:00)	IDLING	<b>SAFETY</b> 0,93 +0,1Δ	<b>HEALTH</b> 1,00 +0,1Δ	<b>KPI</b> 52,7 +0,1Δ



## Personaldyń jaı-kúiin baqylaı

- > Personal kórsetkishteriniń monitorińi (dene temperaturasy, qulaıdy baqylaı)
- > Qol jetkizýdi basqarý
- > Óndiristegi personaldyń KPI
- > Qyzmetkerdiń jeke kartochkasy
- > Qyzmetkerlerdiń densaılyq jaǵdaiy



# Áleýmettik qashyqtyqy baqylaý júiesi



## JEKE QURLÝGNYŇ SIPATTAMALARY

Li-ion batareiasy:  
300 ma\*sağ-24 saǵat jumys

Akselerometr (qulaý jáne  
BELSENDILIK detektory)

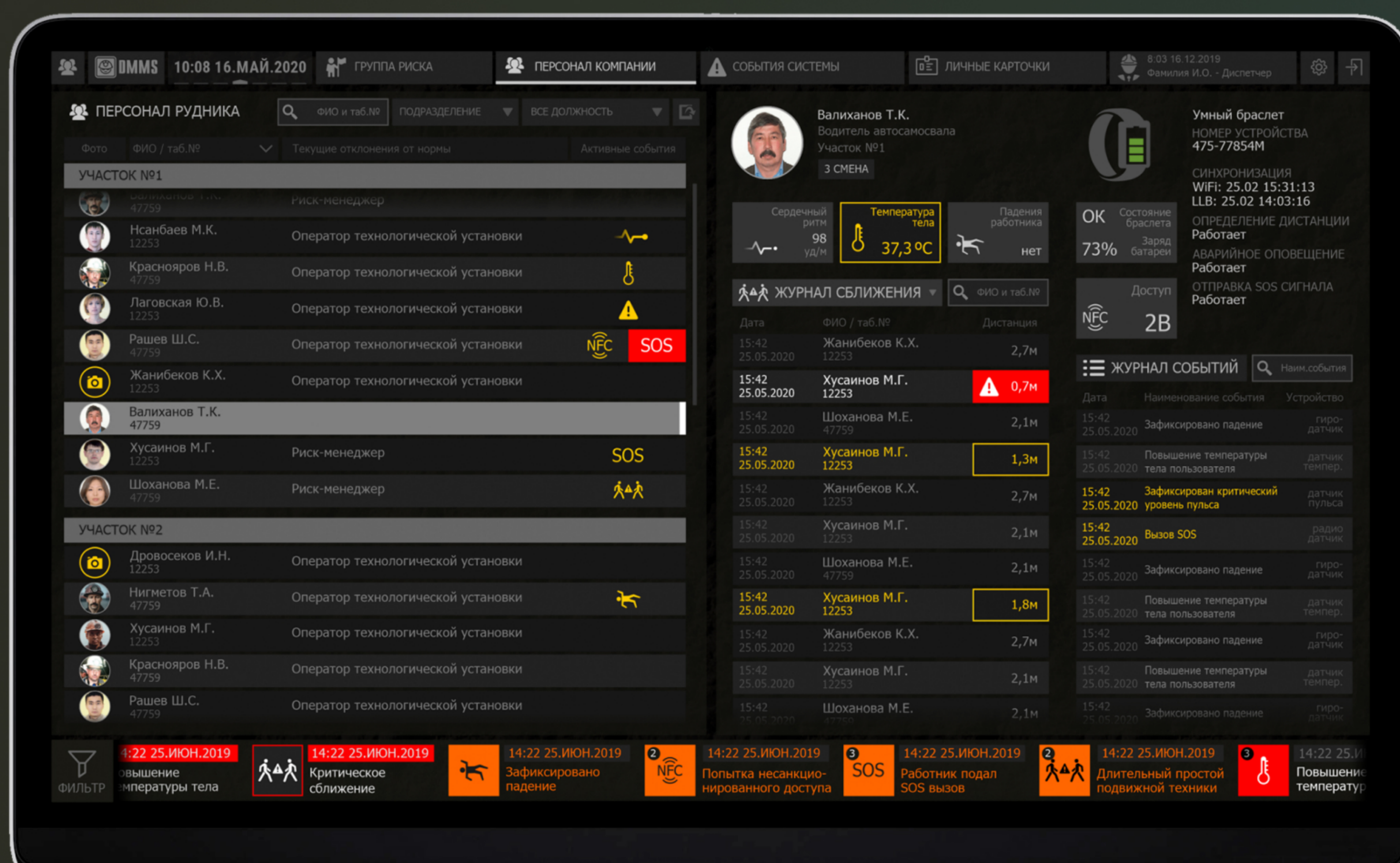
Dene temperaturasynyň sensory

Júrek soǵý jiliginiň monitory

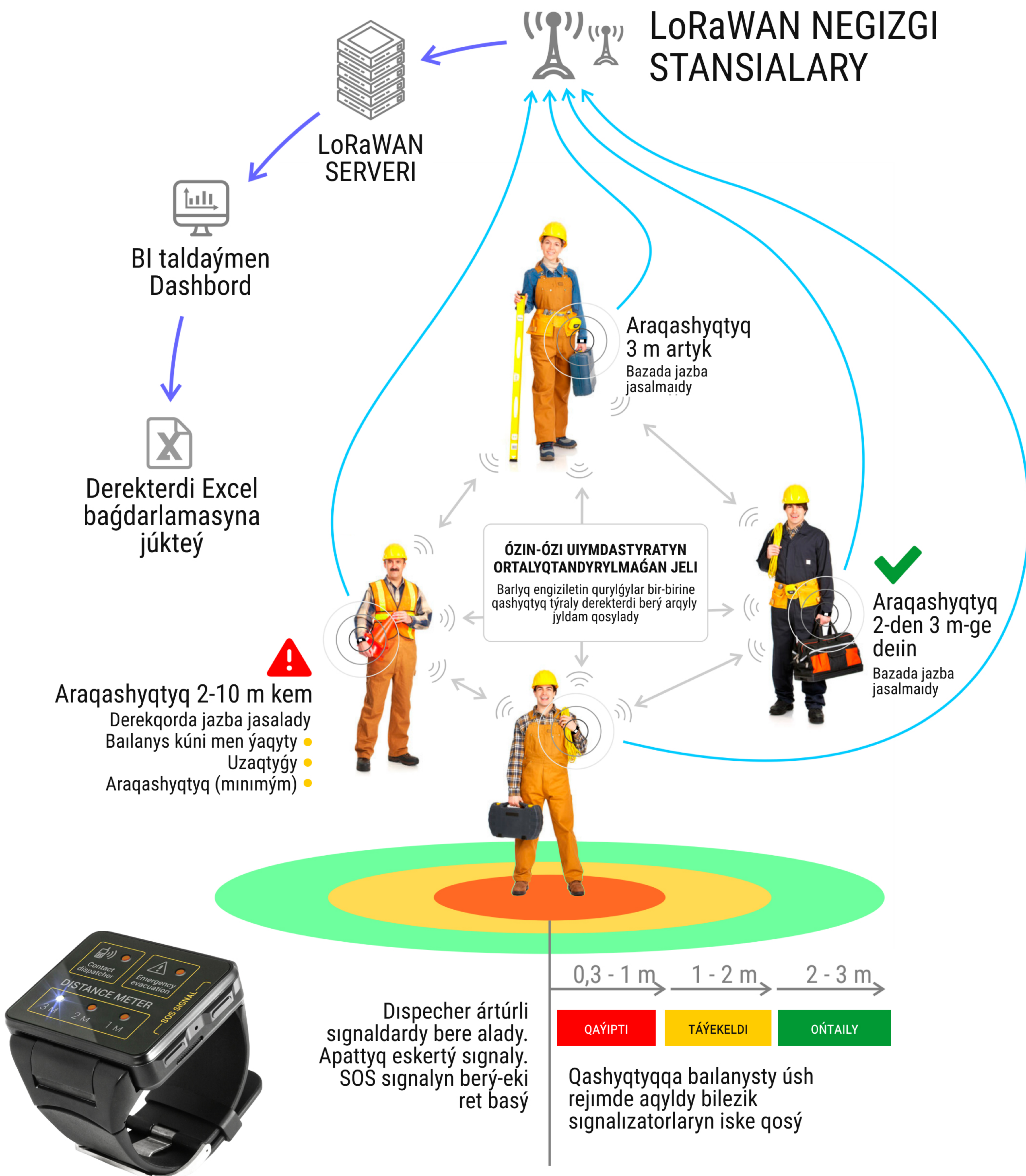
Qol jetkizýdi basqarý júielerine  
arnalǵan NFS

## Júieniň fýnksionaldyǵ múmkindikteri

- Kásiporyn aýmaǵynda personaldyň yqtimal qaýipti qashyqtyqqa jaqyndaýyn onlain monitorińteý múmkindigi (obektilderdiň naqty koordinattaryn anyqtaýsyz)
- Kásiporynnyň aqparattyq júielermen integrasialaý múmkindigi (ERP, 1C, BI jáne t. b.)
- Bazalyq stansialardan kerı bailanys fýnksionaldy jáne eskertý diril-dybys jáne jaryq signaldaryn jiberýge múmkindik beredi



# Архитектура внедрения социальной дистанции










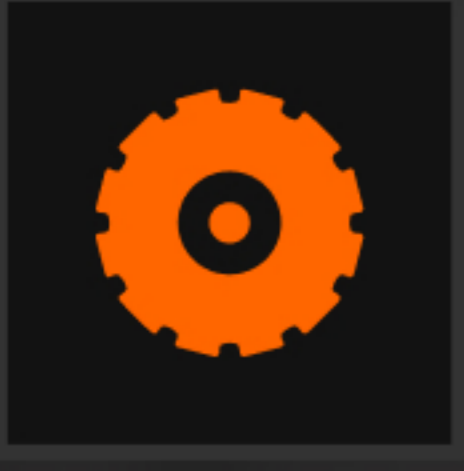


# Oqıǵalar men esepterdi generasialaı

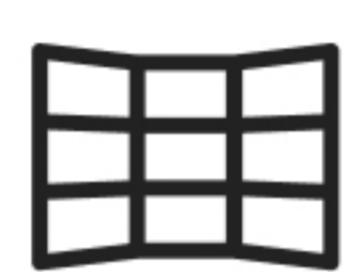
- > Tehnikanyń jumysy men qozǵalysy týraly esepterdi qalyptastyrı
- > Sheshimderdi baqylaı, jýrnal júrgizý jáne oqıǵalar týraly esep berý arqyly oqıǵalardy qurý

## ⚠ TODAY'S INCIDENTS

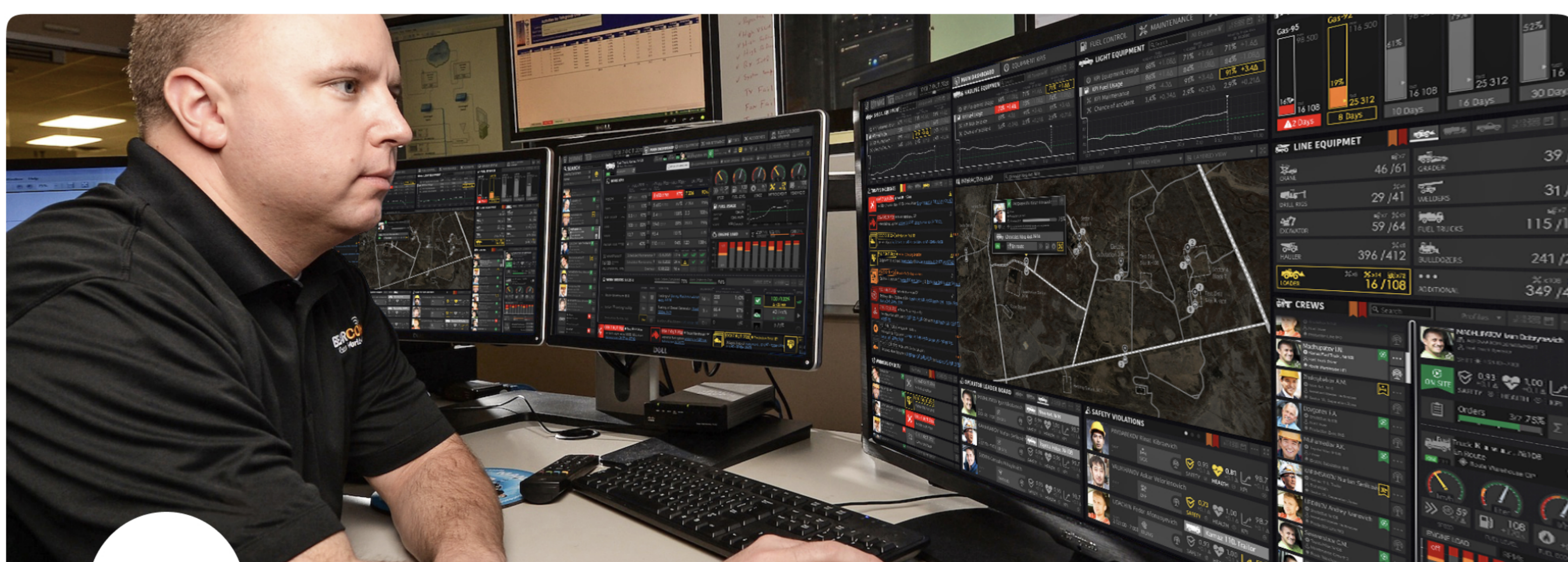
1.10.2020 31.10.2020

-  **10:08 7.OCT.2020** 📍 Road H-14, 8 km ⚠  
Accident Toyota Hilux №108, №16, driver [Dogonyaev F.A. 34177 WO 0774D](#)
-  **10:06 7.OCT.2020** 📍 Route Warehouse OP 📌  
Potential fuel syphon [worker CAT-16H №108 Nifedov N.P. № 34177.](#)
-  **10:03 7.OCT.2020** < 📍 Production Field №3 ⚠  
Delayed trips of [equipment , ID CAT - 1024H №16 ID CAT - 2048H №108](#)
-  **9:58 7.OCT.2020** < 📍 Sector18, Sorting Location ⚠  
Equipment fall identified [Smart phone of Konstantinopolsky ID 34177 WO 0774D](#)
-  **9:38 7.OCT.2020** < 📍 Sector18, Sorting Location 📌  
Deviation from route, 1) [Service TOnP, Sector 7](#); 2) [Production Optimization Sector 6](#)
-  **9:32 7.OCT.2020** 📍 Route Warehouse OP 📌  
Prolonged Idle of Equipment (Idle) [Loader CAT-16H №108, Loader CAT - 1024H №16, Loader CAT - 2048H №108](#)
-  **9:24 7.OCT.2020** 📍 Sector 18, Sorting Facility  
No connection with Loader [CAT-16H №108, Operator Dogonyaev F.A. ID34177, WO 0774D](#)
-  **8:01 7.OCT.2020** < 📍 Route H-14, 8 km  
Prolonged Idle of Equipment, [Loader CAT-16H №108, Loader CAT - 1024H №16, Loader CAT - 2048H №108](#)

# Paidalanýshy interfeisteri



Sityasiylyq jáne dispecherlik ortalyqtarǵa arnalǵan format



Derbes kompúterlerge arnalǵan format



Mobildi qurylgylarǵa arnalǵan format

PAIDALANÝSHY INTERFEISTERI

# Sityasialyq jáne dispecherlik ortalyqtarğa arnalğan format



Астана

Москва



PAIDALANÝSHY INTERFEISTERI

# Derbes kompúterlerge arnalǵan format



# DMMS múmkindikteri

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## Birinshi sanattaǵy modýlder

- Interaktivti karta
  - Pozisialaý
  - Tehnikanyń jaı-kúiin monitorıńıleý
  - Elektronдық narád-tapsyrma
  - Oqıǵalar
  - Aerogazdy baqylaý
  - Apattyq habardar etý
  - Beinebaqylaý
  - Tehnika men personaldyń KPI
  - Toır
- 

## Ekinshi sanattaǵy modýlder

- Jeke kabinet (direktor, ýchaske bastyǵy, sheber jáne t. b.)
- Qorlar jáne barlaý
- Ken óndirý
- Óndiris
- Adamı resýrstar
- Energia resýrstary
- Tasymaldaý
- Dairyn ónim qoıması
- Komersialyq kórsetkishter
- Marketiń
- Joba kálkýlátory
- Búdjet
- Qazynashylyq
- Satyp alý
- Salyq aýdarymdary
- Qorshaǵan ortany qorǵaý



**DMMS**



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