

**NORTAL**

# eHealth here and there

Taavi Einaste



## Manufacturing Execution System

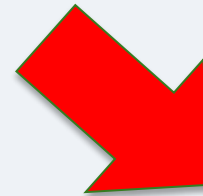
Manufacturing Execution System (MES) integrates a company's systems and automation levels into a whole.

[LEARN MORE →](#)

## eHealth Suite

An efficient, modular, standards-based platform delivers operational efficiencies, increases quality of care and enables better decision making on all levels of healthcare administration.

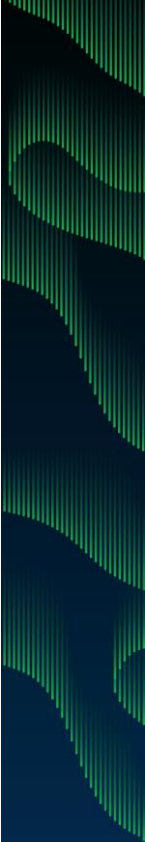
[LEARN MORE →](#)



## e-Government Gateway and Interconnectivity

A self-service governmental on-line portal provides a variety of relevant governmental services for its users in order to get things done fast and stress free.

[LEARN MORE →](#)

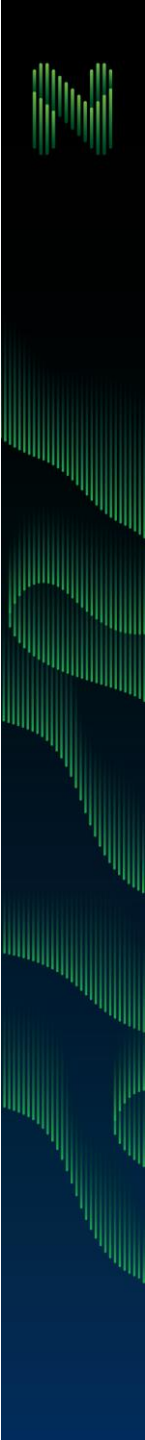






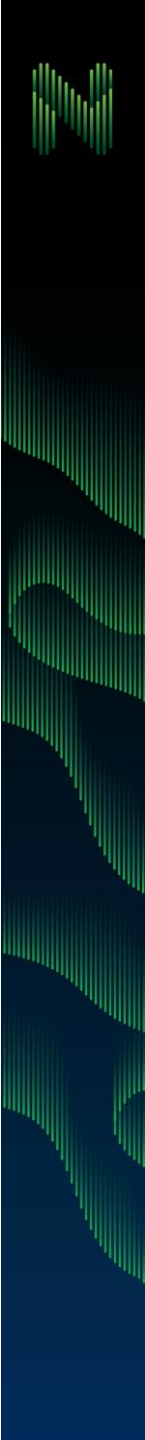
# Nortal eHealth

- ‖ **40 specialists – only medical IT projects**
- ‖ **eHealth HIS developed originally in co-operation with Tartu University Hospital**
  - ‖ **Hospital information system**
  - ‖ **Radiology**
  - ‖ **Lab**
  - ‖ **Treatment billing**
  - ‖ **Business intelligence**
- ‖ **eHealth now also in East-Tallinn Central Hospital**



# Nortal eHealth

- ||| **Labquality – Finnish lab quality control**
  - ||| Runs from Amazon cloud
- ||| **Estonian University of Life Sciences – veterinary clinic**
  - ||| Runs from Amazon cloud
- ||| **Integration solutions for Quattromed**
- ||| **Daily support for Estonian Medical Image Bank**
- ||| ***To be confirmed***
  - ||| ...

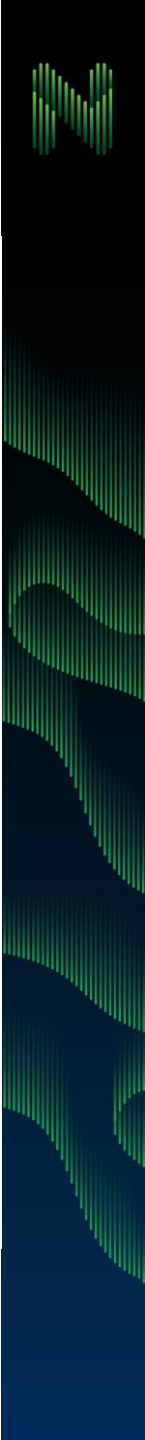
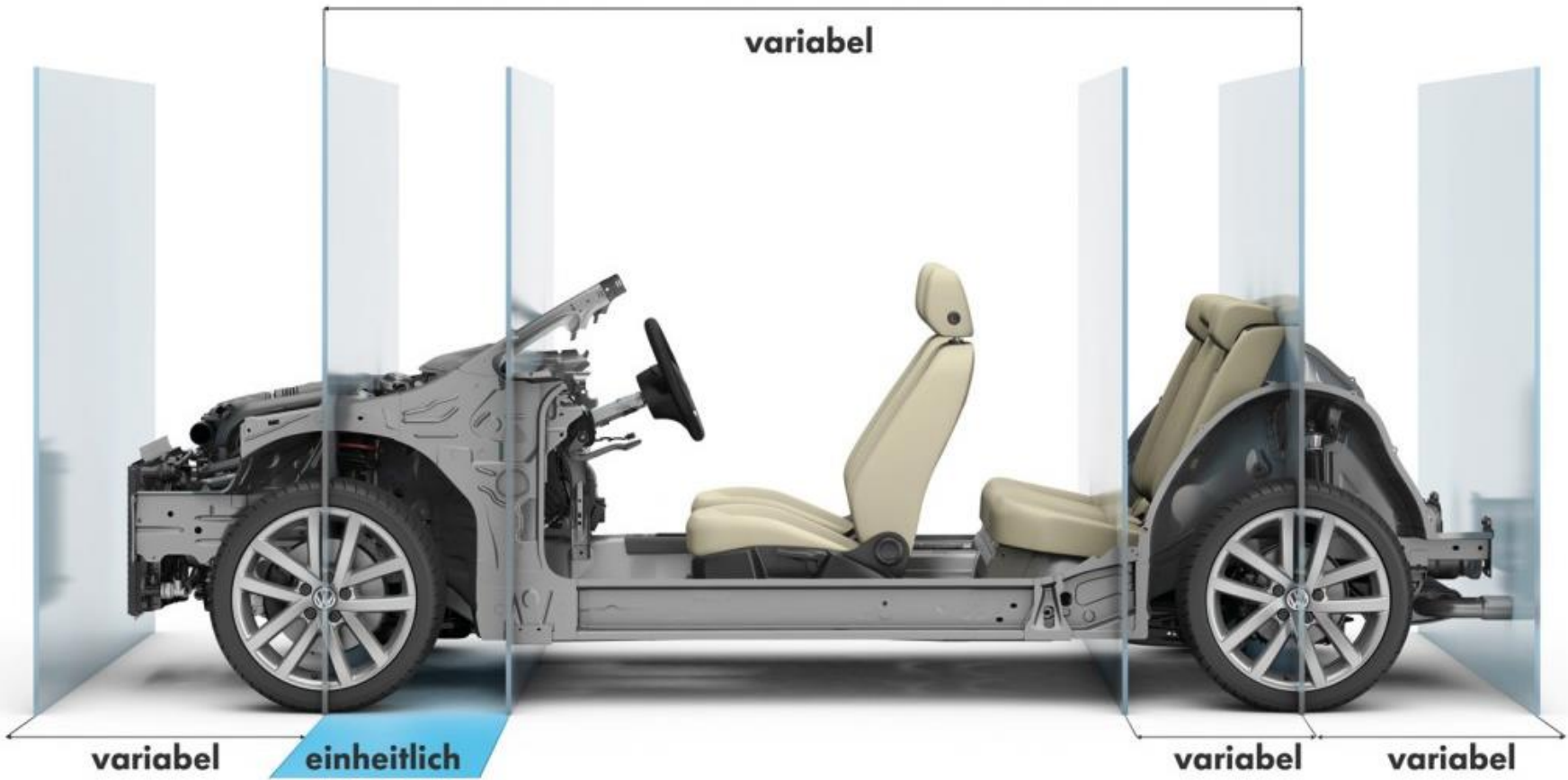


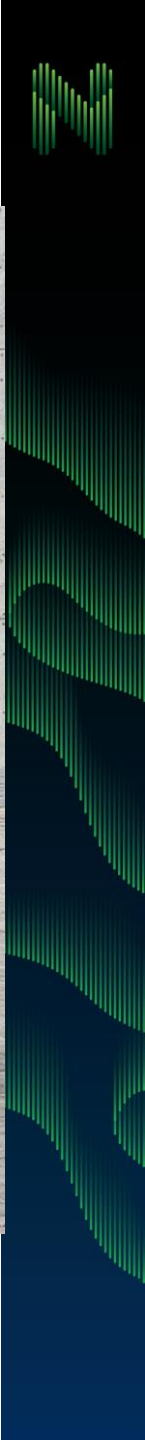
end of commercial break



# Estonia vs ROTW

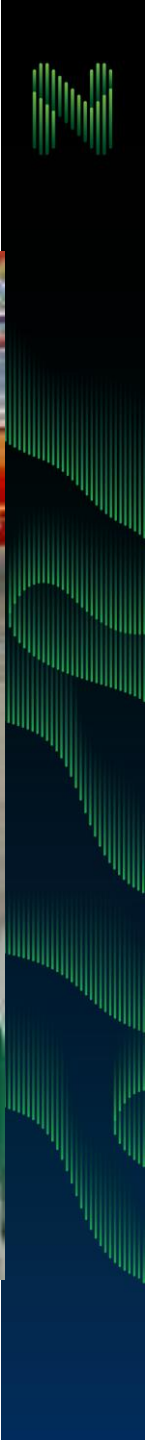








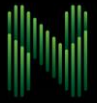






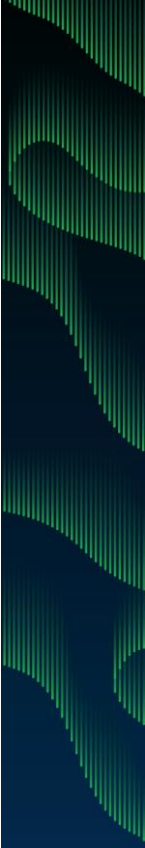


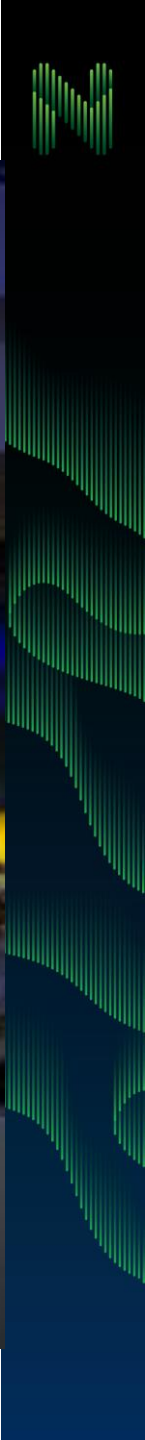












estonian ehealth





Vaheta rolli Sisselogitud ja esindad: Taavi Einaste

Abi Logi välja

# Minu e-tervis

### Minu andmed

Taavi Einaste  
38006170321  
**KINDLUSTATUD**  
Perearst:  
Kristi Talvik

Vall

### Terviseandmed



- Saatekirjad
- Uuringute vastused
- Eplkrileid
- Aegkriitilised andmed
- E-konsultatsioonide otsused
- Teatised

### Tahte-avaldused

Tahteavalduste nägemiseks ja koostamiseks vajuta kastile, lisainfoks noolele

### Esindatavad

OLIVIA MAI EINASTE  
61005017063

### Uuringute vastused

Uuringu vastuste nägemiseks vajuta kastile, lisainfoks noolele



### Vaktsineerimised

Immuniseerimise teatiste nägemiseks vajuta kastile, lisainfoks noolele



### Retseptid

Lisainfoks vajuta noolele

### Broneeri vastuvõtu aeg

- TUTVUSTUS
- PATSIENDILE
- PEREARSTILE
- TELEDERMATOSKOOPAIA
- KONTAKT



Kas Sinu sünnimärke on juba kontrollitud?

## Arst

DermTest teenus pakub arstile võimaluse konsulteerida erialaspetsialistiga õigeaegse diagnoosi ja kvaliteetse raviteenuse tagamiseks dermatoskoopia alal. Teenus võimaldab avastada sünnimärgis tekkinud varajasi muutusi, mis võivad areneda pahaloomuliseks nahakasvajaks. Liitu DermTest koostööpartnerite võrguga ja paku oma patsiendile teledermatoskoopia teenust.

Loe edasi

## Patsient

Nahakasvajad on kõige sagedamini esinevad vähivormid. Kas tead, et nahavähk ja melanoom on ennetatav? Sellele vaatamata diagnoositakse Eestis üle 800 nahavähi ja ligikaudu 200 melanoomi esmasjuhu aastas. Õigeaegse diagnostika ja raviga on nahavähk ja melanoom varajases staadiumis ravitav. Oluline on regulaarselt jälgida oma nahal toimuvaid muutusi. Tule õigeaegselt kontrollii!

Loe edasi



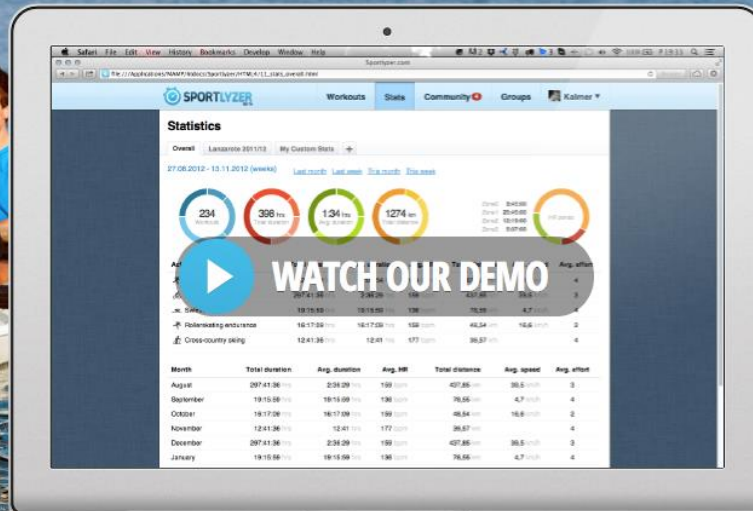
# PLAN, MEASURE AND ANALYZE TO WIN

Coaching software and workout log for sports clubs

REGISTER NOW

FREE

See all features



### Statistics

Owned: Laskaristo 2013/13 My Custom Stats

27/08/2012 - 10/11/2012 (week) Last month Last year Search: 2013



WATCH OUR DEMO

27/08/12	2:36:00	136	48,24	35,8	3
19/10/12	18:15:00	136	76,55	4,7	4
19/10/12	18:17:00	136	48,24	16,8	2
12/11/12	12:41	177	36,57		4
20/11/12	2:36:00	136	48,24	35,8	3
19/10/12	18:15:00	136	76,55	4,7	4

Month	Total duration	Avg. duration	Avg. HR	Total distance	Avg. speed	Avg. effort
August	207:41:36	2:34:29	159	427,85	35,8	3
September	19:15:00	18:15:00	136	76,55	4,7	4
October	19:17:00	18:17:00	136	48,24	16,8	2
November	12:41:36	12:41	177	36,57		4
December	207:41:36	2:36:00	136	427,85	35,8	3
January	19:15:00	18:15:00	136	76,55	4,7	4

Mobile apps for iOS and Android



Data import from most

Sportlyzer allows London Youth Rowing, the largest community rowing project in the world, to monitor its athletes and assist them in raising their standards faster while allowing the coaches to work together from remote locations.





Laboratorija akreditēta Latvijas Nacionālajā  
akreditācijas birojā

## E. Gulbja Laboratorija

Zemītāna Iaukums 13, Rīga, LV 1006  
tel.: 67545052, 67801112, fakss: 67543867  
e-pasts: info@egl.lv

### Testēšanas pārskats Nr. 5991412/ 1 / pabeigts

Vārds, Uzvārds

Personas kods  
Vecums  
Dzimums  
Reģistrēts laboratorijā  
Materiāla raksturojums  
Nosūtītājs  
Maksātājs

Valērijs Barševs!

04.02.1988  
21.09.2013  
Vīrišķs  
04.02.1988  
Materiāls raksturojums  
Nosūtītājs  
Maksātājs

Adrese:

Atbildes saņēmējs:  
e-pasts [proceduras@premiummedical.lv](mailto:proceduras@premiummedical.lv)  
Dr. Dace Cibule.  
Premium Medical SIA  
Dunties 11  
Rīga, LV-1013 Latvija

	Rezultāts	References	Vienības	Iepr. rezult./datums	
<b>Hematoloģija</b>					
10/97A	Eritrocīti	4.96	4.5 - 5.9	10x12/L	4.60 / 20.09.12
20/97A	Hemoglobīns	151	132 - 175	g/L	142 / 20.09.12
30/97A	Hematokrits	45	40 - 51	%	44 / 20.09.12
40/97A	MCV- vid. Er tilpums	91	80 - 100	fL	96 / 20.09.12
50/97A	MCH-vidējā Hb konc.	31	27 - 33	pg	31 / 20.09.12
60/97A	MCHC-vid. Hb konc. Er	330	315 - 360	g/L	320 / 20.09.12
70/97A	RDW-Er. sadalījums	15.9	11.5 - 15.5	%	13.8 / 20.09.12
	<i>Anizocitoze.</i>				
80/97A	Trombocīti	191	150 - 410	10x9/L	202 / 20.09.12
90/97A	Leikocīti	4.10	4.0 - 9.8	10x9/L	3.70 / 20.09.12
<b>Leikocītu diferenciālais skaits</b>					
10/97A	Neitrofilie %	45.9	48 - 72	%	
11/97A	Neitrofilie abs.	1.87	1.92 - 8.00	10x9/L	
12/97A	Eozinofilie %	2.6	0.3 - 5.4	%	
13/97A	Eozinofilie abs.	0.11	0.02 - 0.53	10x9/L	
14/97A	Bazofilie %	1.0	0.0 - 2.0	%	
15/97A	Bazofilie abs.	0.04	0.00 - 0.20	10x9/L	
16/97A	Limfocīti %	42.2	18.0 - 42.0	%	
17/97A	Limfocīti abs.	1.71	0.72 - 4.00	10x9/L	
18/97A	Monocīti %	8.3	2.0 - 11.0	%	
19/97A	Monocīti abs.	0.34	0.08 - 1.21	10x9/L	
20/97A	EGĀ(Kapilārās fotometrijas metode)	5	1 - 15	mm/h	3 / 20.09.12
<b>Klīniskā ķīmija</b>					
21/97A	Kreatinīns	75	30 - 106	µmol/L	
22/97A	Glomerulu filtrācijas ātrums	133	>90	ml/min/1.73 m <sup>2</sup>	
	Kokrofta-Golta kalkūlācija, svars 82 kg				
23/97A	Glikoze plazmā	5.10	3.30-5.89	mmol/L	

file://C:\Documents and Settings\user\Local Settings\Temp\Rar\$EX00.578\post.htm 2013.01.09.

## Lab Results nr 45365656

Name	John Doe	Doctor name	Dr. Indrek Kask
Gender	Male	Collected	18/02/2013
Birthday	March 12, 1980	Printed	23/03/2013
Ethnicity	Caucasian	Address	Rīga, IV-1013 Latvia

Eritrociti	<b>4.96</b> 10x12/L		some short description comes here. One more sentence. Lorem ipsum dolor sit.
Hemoglobīns	<b>151</b> g/L		some short description comes here. One more sentence. Lorem ipsum dolor sit.
Hematokritis	<b>45</b> %		some short description comes here. One more sentence. Lorem ipsum dolor sit.
MCV- vid. Er tilpums	<b>91</b> fL		some short description comes here. One more sentence. Lorem ipsum dolor sit.
MCHC-vid. Hb konc Er	<b>330</b> g/L		some short description comes here. One more sentence. Lorem ipsum dolor sit.
RDW-Er. sadalījums	<b>15.9</b> %		some short description comes here. One more sentence. Lorem ipsum dolor sit.
<b>Anizocitoze</b>			
Trombociti	<b>191</b> 10x9/L		some short description comes here. One more sentence. Lorem ipsum dolor sit.
Leikociti	<b>4.1</b> 10x9/L		some short description comes here. One more sentence. Lorem ipsum dolor sit.
Anti HVC	<b>Negatīvs</b>		some short description comes here. One more sentence. Lorem ipsum dolor sit.
RPR	<b>Negatīvs</b>		some short description comes here. One more sentence. Lorem ipsum dolor sit.
RPR	<b>Positīvs</b>		some short description comes here. One more sentence. Lorem ipsum dolor sit.
Trombociti	<b>191</b> 10x9/L		some short description comes here. One more sentence. Lorem ipsum dolor sit.
Leikociti	<b>4.1</b> 10x9/L		some short description comes here. One more sentence. Lorem ipsum dolor sit.



Close

feedback

### What is HealthDiary?

HealthDiary is a safe and private place to keep, access and easily export all health related notes, reminders, reports, pictures. You can record your child's growth milestones, stomach troubles and doctor's visits. Reminders help you keep track of important appointments.



### How can I join?

HealthDiary is currently preparing for a beta launch. If you want to be among the first to try HealthDiary, leave us your e-mail address and we'll inform you as soon as we're up and running.

E-mail

You can analyse your child's data

## Tere tulemast Patsiendiportaali, Vambola!

[peida see teade](#)

Meil on ülihea meel, et saame Teid nüüd teenindada ka Interneti vahendusel. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed non dui erat, ac vulputate sapien. Proin facilisis pharetra purus nec mollis. Sed dapibus condimentum neque. Donec sed orci et elit mollis feugiat.

### Broneeri aeg

Eriala:

Teenus:

Arst:

Raviasutus / Hoone asukoht:

Otsi aegu alates:

[OTSI](#)

### Minu broneeringud

<b>Kõrva-nina-kurguarst</b> Kuulmise kontroll	KÕÖLUS, SILVI	<b>12.05.2012</b> kell <b>11:30</b> L. Puusepa 1a, kabinet 203	Meelespea
<b>Neonatoloog</b>	KUDE, KASPAR	<b>17.05.2012</b> kell <b>15:25</b> L. Puusepa 1a, kabinet 007	Meelespea
<b>Neuroloog</b> Neuroloogi konsultatsioon	SAAR, VALDEMAR	<b>18.05.2012</b> kell <b>10:00</b> L. Puusepa 1a, kabinet 211	
<b>Psühhiaater</b> Psühhoterapia		<b>27.05.2012</b> kell <b>09:15</b> L. Puusepa 1a, kabinet 789A	
<b>Psühhiaater</b> Tugev psühhoterapia	NAARITS, AVE MARIA	<b>31.05.2012</b> kell <b>09:15</b> L. Puusepa 1a, kabinet 1	Meelespea

[Vaata kõiki broneeringuid](#)

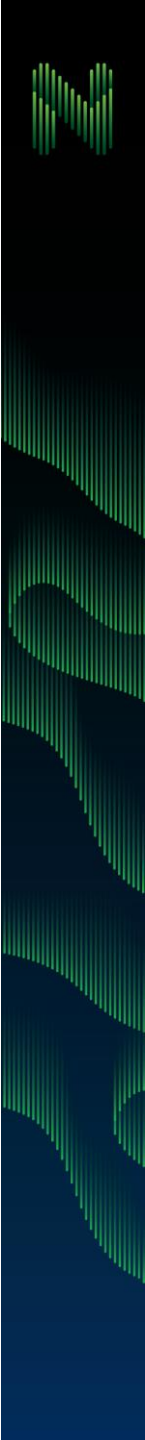
### Minu arved

[MAKSA KÕIK ARVED](#)

<b>667277738</b>	Tähtaeg: 13.05.2012	<b>30.00 €</b>	<a href="#">MAKSA</a>
<b>127738829</b>	Tähtaeg: 21.05.2012	<b>119.25 €</b>	<a href="#">MAKSA</a>
<b>992817723</b>	Tähtaeg: 31.05.2012	<b>17.49 €</b>	<a href="#">MAKSA</a>

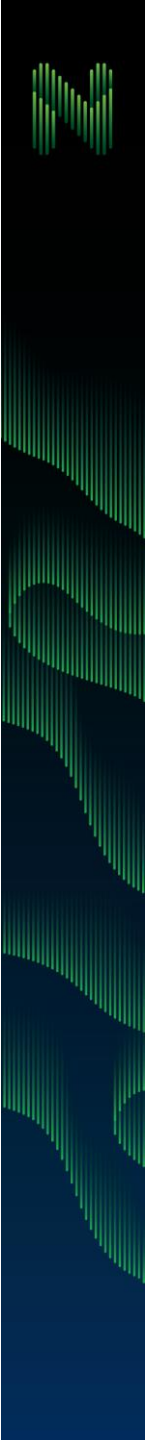
small country effect

- ‖ **Limited money in the system to support complicated homegrown projects**
- ‖ **Limited availability of specialists for development of sophisticated and wide applications**
- ‖ **1 university teaches all MDs**



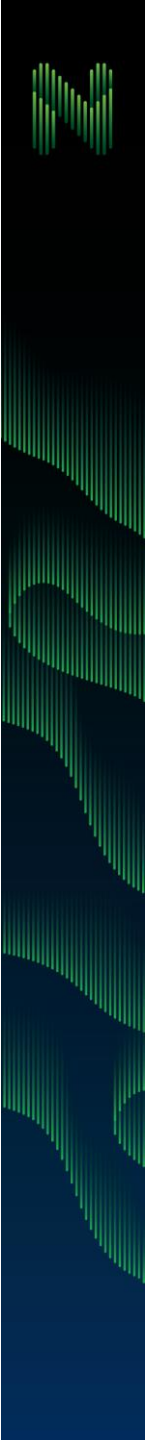
# Result?

almost everything  
is true from  
Dr. Kariis' presentation



# Result?

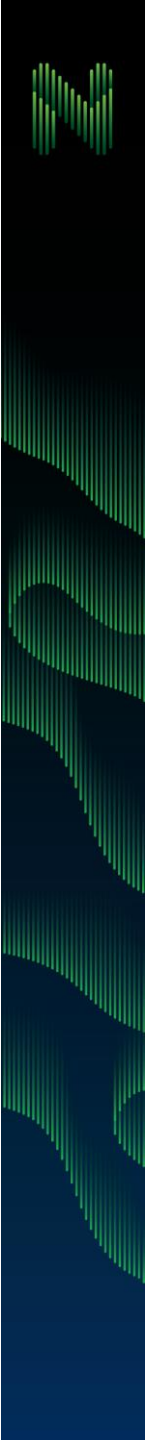
- ‖ Limited funds for “UI optimization”
- ‖ Limited funds to include doctors in development process
- ‖ Limited funds for training
  
- ‖ But not....similar processes in hospitals 😊





duplication vs competition

- || 4 hospital information systems...
- || Each has a separate lab system...



way out?

the only way out is the way out!



**Export**



**O  
MUERTE**



role of medical specialists













 **NORTAL**



