

Hospital Information Systems in Estonia

Erkki Leego

CEO

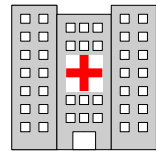
Hansson, Leego & Partner



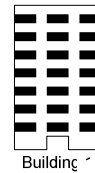
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49 hospitals

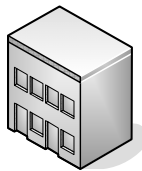
Where there is a will there is a way!



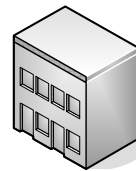
3 regional



4 central

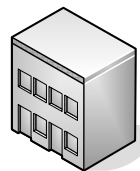
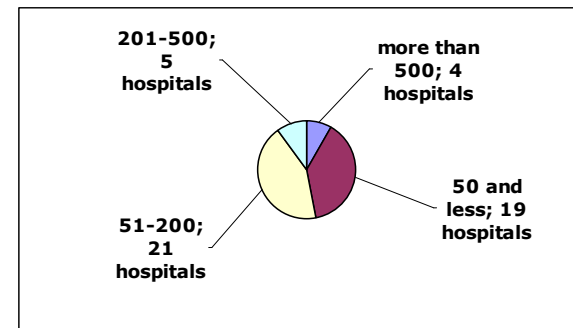


11 general

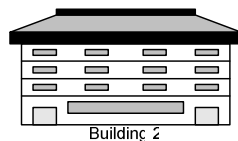


5 local

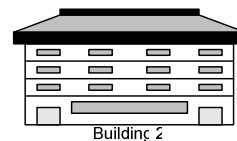
Hospitals by Numbers of Beds



4 special



19 care



3 rehabilitation

Survey (March 2006)



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Where there is a will there is a way!

- Question on 20 medical modules. Whether:
 - Don't need
 - Don't use
 - Plan to use in near future
 - Application name
- Participation in survey - 37 from 49
 - Regional hospitals 2 (3)
 - Central hospitals 4 (4)
 - General hospitals 10 (11)
 - Local hospitals 4 (5)
 - Special hospitals 3 (4)
 - Care hospitals 11 (19)
 - Rehabilitation hospitals 3 (3)

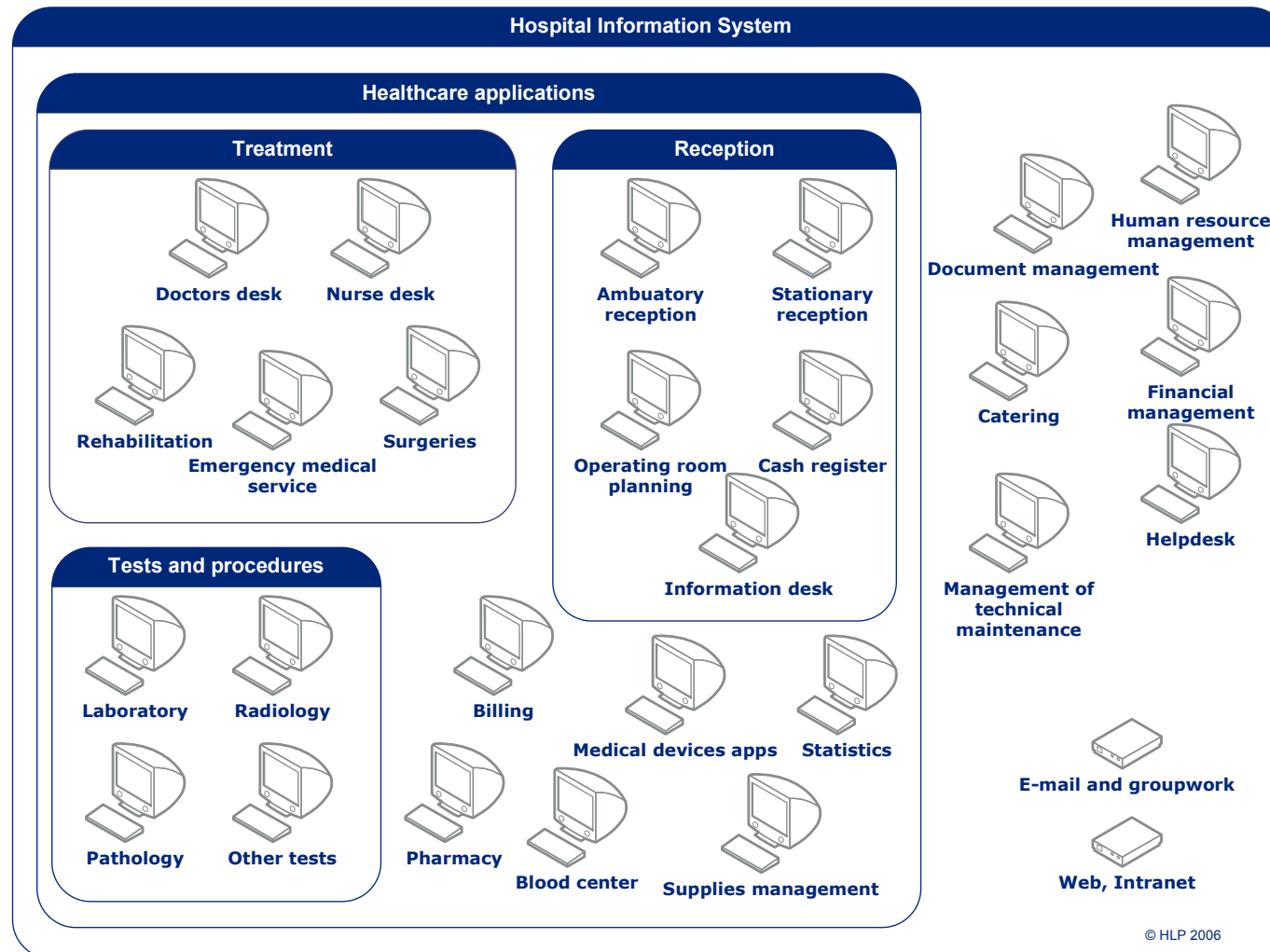
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HIS modules



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Where there is a will there is a way!



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General results



Where there is a will there is a way!

	Staff per computer	Don't need	Don't use	Plan to use	Applica-tions
Regional	2.94	2.5%	7.5%	15%	75%
Central	3.12	1,25%	10%	2.5%	86.25%
General	3.57	2%	13.5%	8%	76.5%
Local	5.55	36.25%	18.75%	22.5%	22.5%
Special	4.06	20%	53.33%	0%	26.67%
Care	10.09	62.72%	17.72%	8.64%	10.90%
Rehabil.	9.38	86.66%	3.33%	1.67%	8.33%

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Observations



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Where there is a will there is a way!

- All systems are developed in Estonia
- Popular modules
 - Billing – used in 30 hospitals
 - Statistics – used in 29 hospitals
- Less used modules
 - Pharmacy, supplies management, information desk
- Hospital strategies
 - Regional hospitals build own systems
 - Medium hospitals use Ester 3.4
 - Small hospitals don't need applications

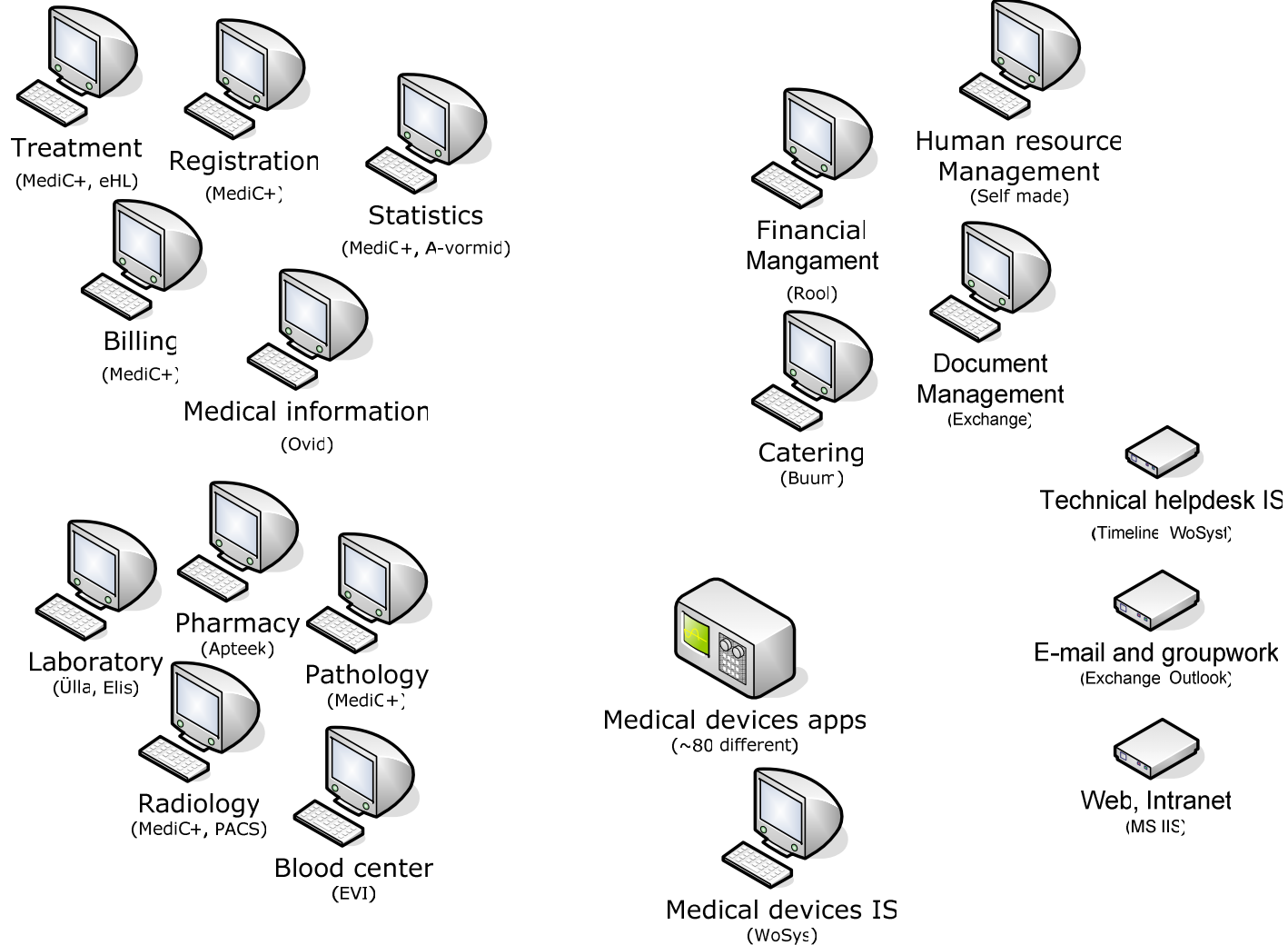
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Tartu University Hospital HIS



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Where there is a will there is a way!



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Main HIS's in Estonia



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Where there is a will there is a way!

- Ester 3.4
 - Used by 3 central, 10 general, 1 local Hospitals
 - Owned by Ministry of Social Affairs
 - Supported by Gennet Lab Ltd
- Ester 2
 - Used by 1 regional and 1 central hospital
 - Ownership unclear and no company support
- Medisoft Hospital
 - Used by 1 regional and 1 central hospital
 - Owned and supported by Medisoft Ltd.
- MediC+
 - Used by 1 regional hospital
 - Owned and supported by 7+7 Ltd.

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New developments



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Where there is a will there is a way!

- Tartu University Hospital
 - Actively developing new EPR system (eHL) and new eLaboratory system
- North-Estonian Regional Hospital
 - Developing new Radiology IS and has plans for new Laboratory System
- West-Tallinn Central Hospital
 - New on-line booking system
 - Actively developing Medisoft Hospital
- East-Tallinn Central Hospital
 - Actively developing Ester 3.4
- Fertilitas (Private special hospital)
 - Is looking for new EPR system

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Conclusions



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Where there is a will there is a way!

- Functionality of HIS's rather high - 75%
- All systems with local development background
- Four main systems – Ester 3.4, Ester 2, Medisoft Hospital and MediC+
- Not much cooperation in development

Erkki Leego – CEO



- Where there is a will there is a way!

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