



kõrgharidus

Eesti IKT sektor

minev



uhke

olevik



**eksporti
fookus**

tulevi



**ambitsiooni
kas**

IKT Eesti?

liiga väike?



sobiv testmaa

liiga väike?



**tehnoloogia +
loovus**

liiga väike?



targad valikud

OSALISED

IT Akadeemia algatajad

Tallinna Tehnikaülikool

Tartu Ülikool

Tallinna Ülikool

IT Kolledz

ITL

Arengufond

IT Akadeemia

partnerid
HTM

MKM

EAS

Archimedes

EITSA

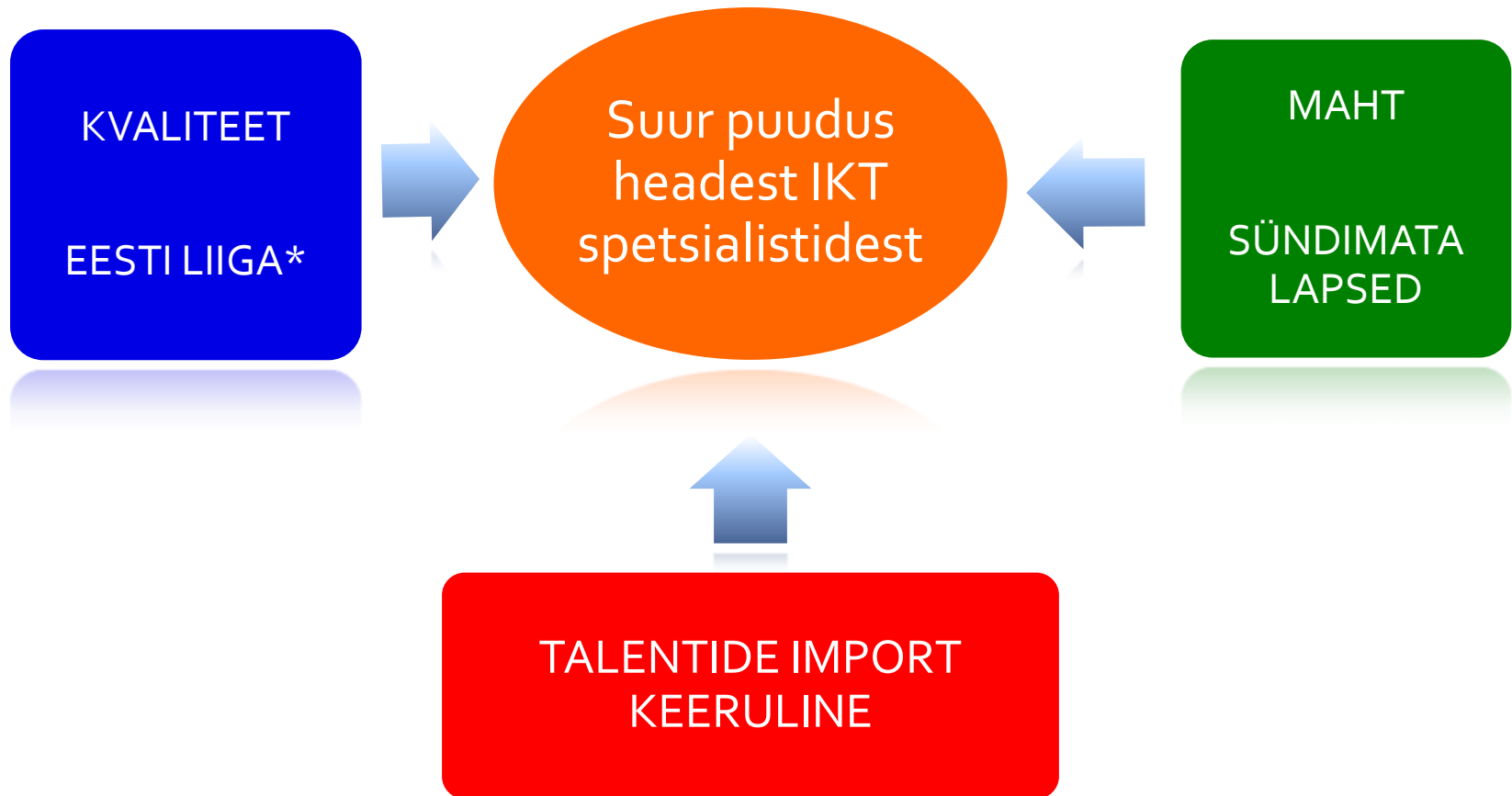
Politicians start making decisions only when there is nothing else left to do. For that matter, soon we will be in a very favourable situation for decision-making.

Mart Laar,
Member of the Parliament of Estonia and
the Supervisory Board of the Development Fund
(EST_IT@2018 Forum, 11 December 2008)



KRIIS / VÕIMALUS

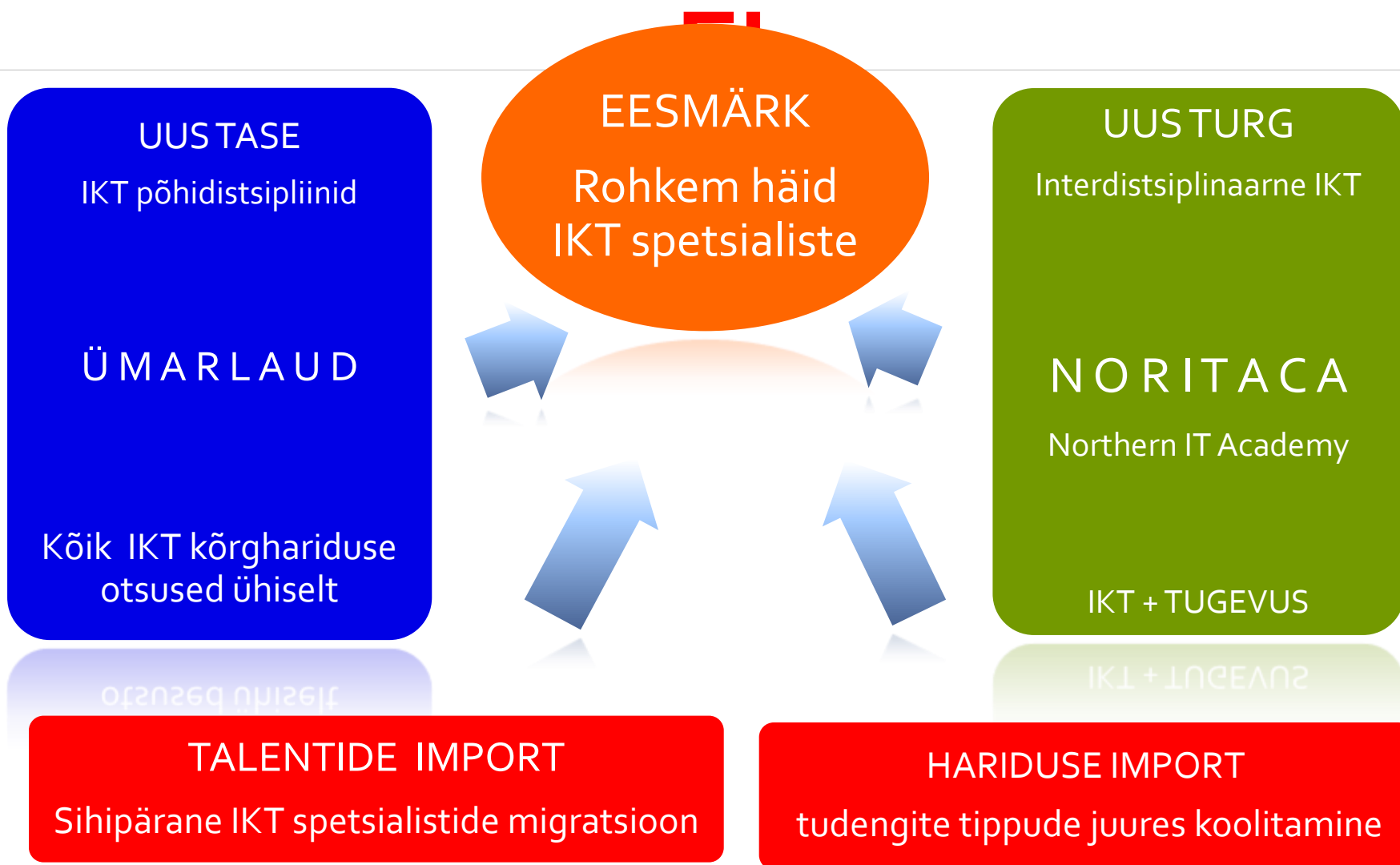
Memorandum IT Akadeemia 2009



RAHVUSKOONDIS vői KLUBILIIGA



LAHENDUSMUD



“We must provide students an engaging curriculum that goes **beyond** programming and represents the **imaginative, creative, collaborative,** and complex character of Informatics/Computing.”

Cf. Comm. ACM (Nov 2008)

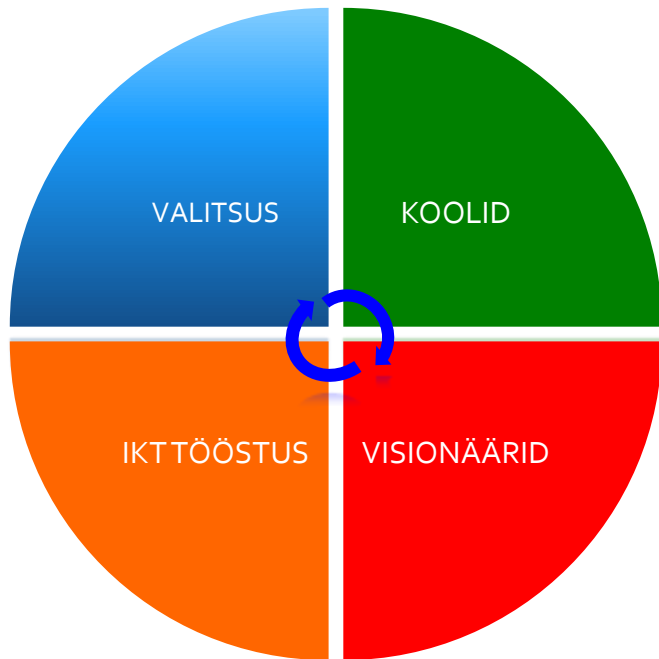
Informatics education was and now is...

- focussing on programming languages, datastructures, database systems, logic (and math...), program construction
- organized in 4-5 year diploma programs



- focussing on algorithmic thinking, concepts in context, object/agent/web/service-oriented programming, multimedia, embedded systems, distributed intelligence, system architecture
 - Amazing software technologies, unleashing creativity
 - embedded in multidisciplinary and experiential learning
 - organised in broad 3-year Bachelor / specialised 2-year Masters
 - more application- than theory-oriented
 - using unlimited digital information
 - in great demand in all branches of science, business, industry, ...
-

ÜMARLAUD



Osapoolte tippjuhid

Võrdsed proportsioonid

**Juhib IKT kõrgharidust
tervikuna**

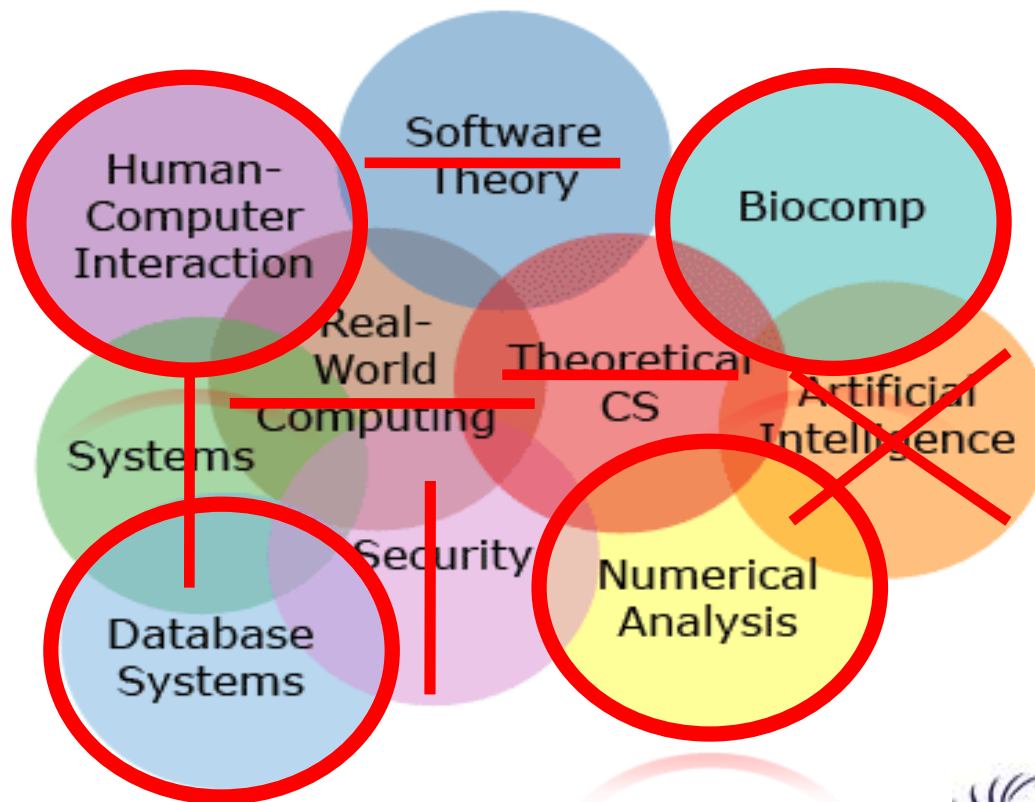
**Konsensuslikud otsused
3/4**

Uue ülesande fond

**Iga tudeng väärib parimat, iga sent peab minema asja
ette.**

JAGATUD ÜLESANDED

MÕISTLIK JAGADA TÖÖJAOTUS PÕHIDISDISIPLIINIDES



Üks



Mitu

— Koos



Ei keegi

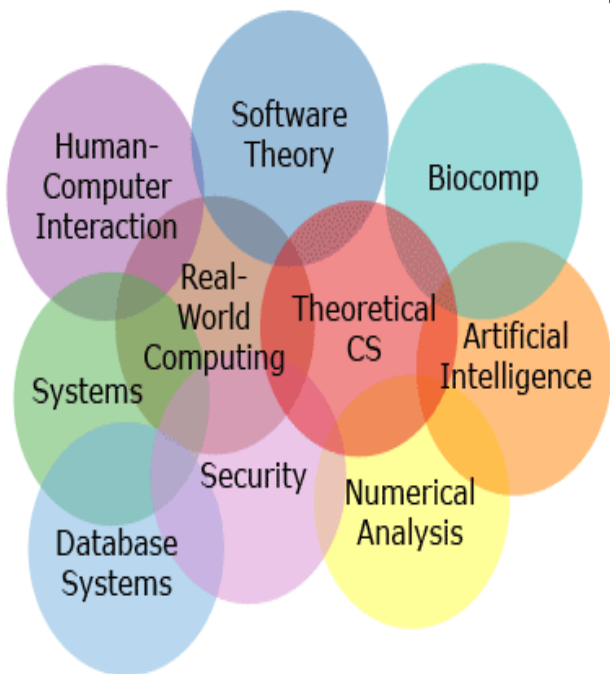
Core subjects of the Information Age

- The Internet
 - Packet communications
 - Protocols (TCP/IP)
- Web/Mobile code
 - Java
 - High-level PL's research
 - Exchange languages
- Complexity
 - Algorithm design
 - Computational complexity
 - Cryptography
- Data analysis
 - Data mining
 - Semantic web
- Multimedia
 - Data compression algorithms
 - Computational geometry
 - Game design
- Web science
 - Search engines
 - Social computing
 - Natural language technology
- Computational systems
 - Algorithmics
 - Multi/many-core programming
 - Parallel compilation
- E-science
 - Virtual laboratories
 - Diagnostic systems
 - Life science informatics
- Cognitive systems
 - Computational theory of mind
 - Intelligent systems
 - Sensor networks and robots
 - Human-computer interaction
- Information systems
 - Transaction systems
 - Operations research
 - Value chain informatisation
- E-business
 - Information security
 - Enterprise architecture
 - E-services

Adapted from R. Constable

EESMÄRK – VALIME LIIGA

TASEME



Tase1 **2 X**

Tase2 **2 X +**

Tase3 **2 X + ENG**

Tase4 **2 X + ENG**

Nordic top

Eelarve **7 – 35m EUR** **5 aasta jooksul**

one of the most exciting disciplines to study, where you can have an impact on **real world problems**

- ✓ a science, based on deep ideas that you will discover, apply and can even invent as an undergraduate.
- ✓ highly suited to people who are creative, enjoy solving puzzles, like to design and build things.
- ✓ an ideal discipline for students who have broad interests, because it can be applied to so many other fields, an ideal place for interdisciplinary studies
- ✓ open to students with or without programming experience
- ✓ one of the most employable degrees you can get

Cf. Computer Science, Univ. of Toronto.

Uus tippõppekeskus interdistsiplinaarse ja ettevõtliku IKT magistri- ja doktoriõppe tarvis.

Doktoriõpe

Magistriõpe

Ainemoodulid

Täiendõpe

Interdistsiplinaarne – valdkondi liitev

Ettevõtlik – lahendusi loov

Globaalne - avatud

Uuenduslik - eksperimenteeriv

talente innustades

SISU = IKT + TUGEVUS / FOOKUS

