



R/SE

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**Criminal Sanctions Agency, Finland** 

EuroPris ICT workshop, 30.9.2020





# **Development of ICT-services in prisons 2017-2018**





### **Digital rights: Imprisonment & Remand Imprisonment Act 2015**

Prisoners may be given permission to send and receive e-mail messages and use the internet for an important reason related to the maintenance of outside contacts, subsistence, or attendance to work-related, educational, judicial, social or housing matters or for another corresponding important reason Prisoners may be given permission to communicate with their close relatives or other close persons via video **connection** or other suitable technical means of communication where the participants have an audio and visual connection with each other. In order to maintain outside contacts or for another important reason, prisoners may be allowed to communicate with some other important person in this manner.



### Prisoner workstation and network environment 2017 - 2018



- Developed in co-operation with Government ICT Center Valtori
- Data security audited by F-Secure
- 200 laptops in use
  - > 2-20 joint use workstations in every unit
  - Lenovo laptops (hardened)
  - Mobile network (4G modems + sim cards)
- Permission to use must be applied from prison director



### Services in joint use workstations



- Skype meetings
- Restricted Internet
  - Closed prisons: 800 whitelisted websites
    Open prisons: blacklisting
- All new website requests are controlled by the security department
- Moodle for high-school education
- Open Office tools
- Separate laptops for high-school examination





# Challenges

- Authentication and controlling
  - Skype-meetings' supervision
  - Services that require strong electronic authentication or e-mail authentication
- E-mail access lacks in closed prisons' workstations
  - Imprisonment act's requirement is not met
- Whitelist
  - No possibility for searching / browsing
- Digital skills?

**Conclusion:** personal device & smart system is needed!





### **Prison - always 10-20 years behind the (digital) development of society?**













# **Strategy – digital strategy**





### Strategy map of the Criminal Sanctions Agency for 2020-2023

Vision 2025	Pre	ited, uniform, and epares for a life wit towards more ope	hout crime	•				
Social objectives (clients and citizens)								
We prepare clients for without crime	enforcement of sente			Legal protection and equal treatment are realised in our operation				
0	perative pe	erformance (process	ses and org	anisation)				
We form networks a integrate into the nor services of societ	networks and process nto the normal info		operational and client esses are smooth and formation systems omote performance		Our network of facilities and organisational structure help us reach our goals			
Staff Resources								
We reform our management system and support the development of our staff's competence		II- out goal- ork oriented interactive	res a pro	e allocate sources to activities moting the strategy	Our operation is economic and productive			





### **Digital services support strategical targets**

#### Reduce recidivism

- More services with personal and easy access
- Less paper work: more time for face-to-face contact
- **Continuum** to digital society

Reintegrate into society

- Principle of normality: availability of public services
- Prevent marginalisation: digital skills are needed in modern society
- **Modern** job market requirements





### **Targets of the project**

Hämeenlinna Smart Prison 2020

# Ge

#### General digital development

100 women inmates

Personal cell device in every cell

□Smart system installed

Pilot environment for new digital services

Digital services as part of everyday management, rehabilitation and interaction between staff and prisoners Digital services portal for joint use workstations
Enabling new digital services
Inmate e-mail system
Digital guidance training to staff

Meeting the challenges of covid-19!









### **Gate - Portti: Digital services portal**

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https://www.rikosseuraamus.fi/fi/index/portti.html

- Opening page of the joint use workstations
- Tabs categorize whitelisted websites into seven rehablitative themes
  - For example substance abuse, education, healthcare, family work & social services
  - Finnish / Swedish / English





### **New digital services**

- More whitelisted websites for rehabilitation and studying
  - Online programmes
  - "Virtual Hospital"
  - Suomi.fi electronic messages
  - Basics of AI –course
- Digital skills training
  - Digital guidance from staff to prisoners

### Online consultation

- Public Employment
- Social Insurance Institution
- Red Cross

#### A-Clinic online digital therapy

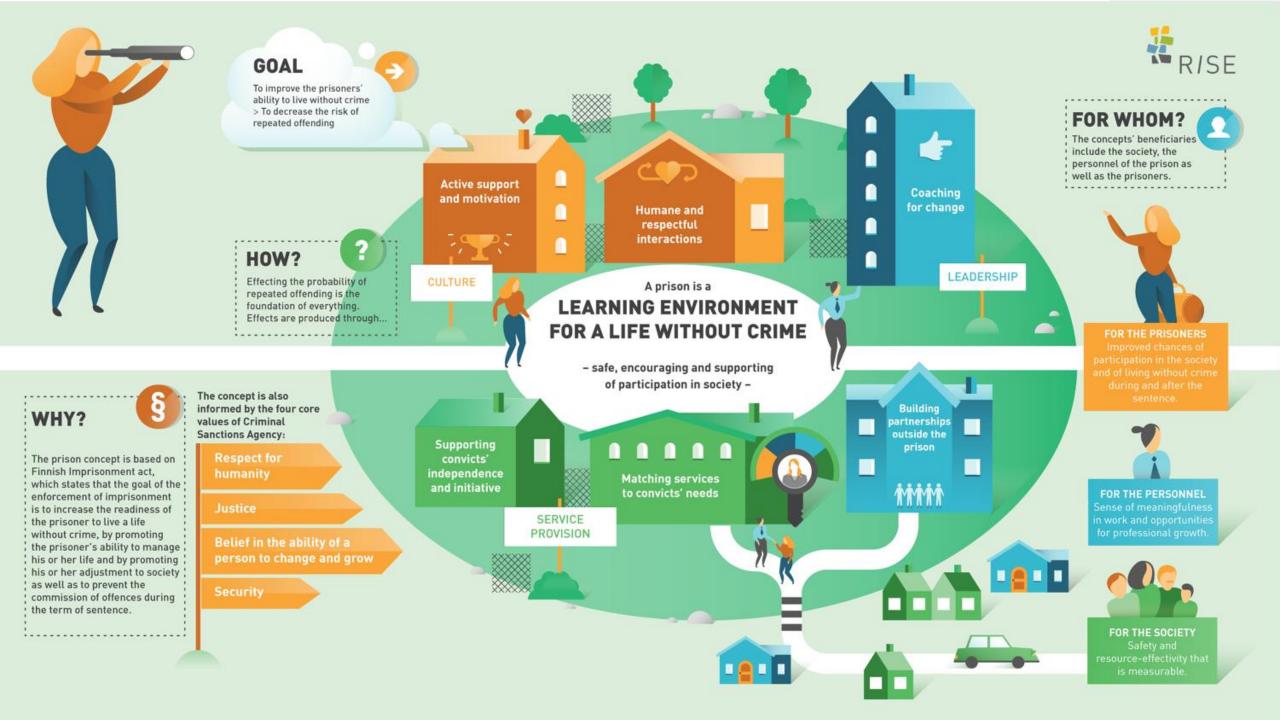
#### □Virtual Reality (VR) pilot

• Separate devices





# **Developing Smart Prison**







### **Prison concept – Smart Prison concept**

#### **Prison concept**

- Cut costs and uses space more efficiently
- Enable more open prison environment
- Increase prisoners' rehabilitative independence
- Leave more time for interaction and coaching
- Require a new type of a work and management culture

### ... supported by digital services

- Digital services are cost-effective
- Cell device is a secure access to outside
   –> WLAN works out of cell too
- Online independent rehabilitation services and studies
- Routine tasks can be managed independently with the cell device
- Change in prison culture enables positive change in prisoners





### Service design

Planning and organizing services and their components in order to improve quality and interaction between the services and the users

Establishing best practices for designing services according to the needs of the users so that the service will be user-friendly, relevant to the users and motivates the users to use the service more

Prisoner as a customer – user-relevant services are effective services that reduce recidivism





### **Digital service design**

- What are the best digital practices for rehabilitation, reintegration and reducing recidivism?
- What new innovative digital practices can we pilot in Hämeenlinna?
- What are the questions for the proof of concept (POC)?

- Prison concept
- Scientific research
- Individual planning of the sentence term
- Specific needs of women
- Smart prison model in other countries





### **Collaborative development process**

Workshops and questionnaires for staff and prisoners

- Service map with seven rehabilitative themes
- Proof of concept (POC) in 2019 in two prisons

Specifically for women:

- Empowerment & self-esteem
- Family, parenting and child care
- Learning and vocational skills for modern job market
- (Mental) health care: traumainformed practices
- Wellness, spirituality, recreationNGOs

Lindström & Puolakka (2020): Smart Prison: the preliminary development process of digital self-services in Finnish prisons.

RISE CRIMINAL SANCTIONS AGENCY Service map 2021: examples of services RISE

TH 1 Substance abuse and addictions	TH 2 Values, attitudes and behaviour	TH 3 Everyday life skills	TH 4 Education and vocational skills	TH 5 Health and well-being	TH 6 Children, parenting and social relations	TH 7 Reintegration into society and living without crime
Substance abuse rehabilitation wards  Programme work  Digital services	Programme work  Psychologist's reception  Spiritual services	Cooking and household skills  Digital guidance  Outdoor work / Green care	Basic education  Library  Vocational education connected to work activities	Medical care  Outdoor exercise  Gym	Different types of visits Family ward Family camps	Case management and social service counselling  Support for release  NGO-services for women

RISE CRIMINAL SANCTION Digital service map 2021: examples of services R/SE

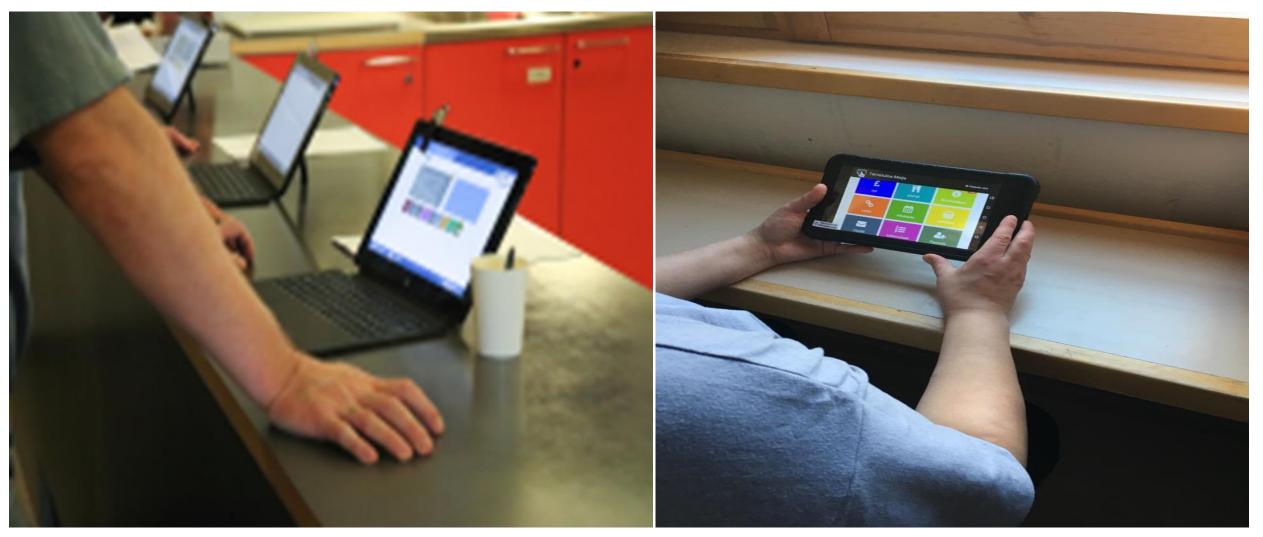
TH 1 Substance abuse and addictions	TH 2 Values, attitudes and behaviour	TH 3 Everyday life skills	TH 4 Education and vocational skills	TH 5 Health and well-being	TH 6 Children, parenting and social relations	TH 7 Reintegration into society and living without crime
Whitelist	Whitelist	Whitelist	Whitelist	Whitelist	Whitelist	Whitelist
Self-help materials in electronic form 	Video consultation with NGOs (for women) 	Online shop  Digital guidance	E-learning Basics of AI -course 	···· ···· Virtual Forest (VR)	 Virtual visits with family members and other close ones	Video consultation with communal, judicial and social services (employment,
			Digital Leap course			housing etc.)

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### **Proof of concept (POC) in 2019**













#### **Digital change in prison culture and interaction**

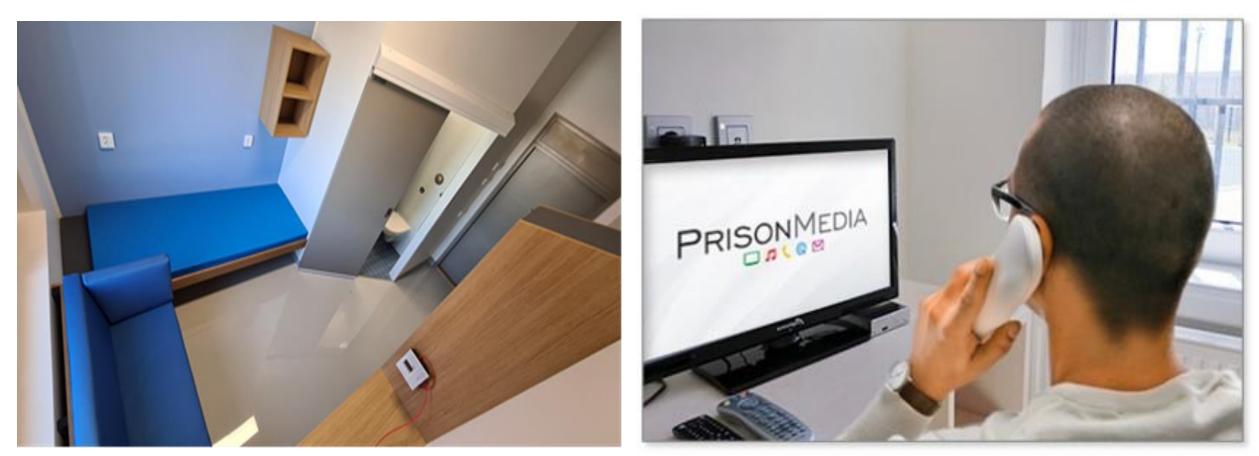


- □ 100 female prisoners
  - > 100 digitally marginalised
  - > 100 individual cells
  - Personal smart device in every cell
- All staff gives digital guidance
- Bringing together and developing all our best digital practices





### Smart cell



Smart Cell

Gerdes





# Smart cell device & co.



- Developed in co-operation with Gerdes, Legal Register Center and Government ICT Center Valtori
- Data security auditing by F-Secure
- Lenovo laptops (hardened)
  - LAN + WLAN
- Separate laptops
  - High-school examination
  - E-mail
  - VR
- Separate cell TV & phone





### **Cell device services**

#### Intranet / noticeboard / news

- Restricted internet
  - Whitelisted websites
  - Portti opening page
- Canteen

#### □Virtual visits

video calls with prison staff, relatives and public service providers

#### Messaging

- requests and applications
- e-learning and studying
  - > Open Office for homework...
  - Possibility to use Moodle
- e-books and audiobooks

#### Material bank

guidelines, self help material for rehabilitation





## In a digital learning environment prisoners can...

- Manage their daily affairs via the cell device
- Study also independently and subjects not available in prison
- **Contact** their relatives online
- **Consult** professionals and take responsibility for their rehabilitation
- Learn digital skills

- **Learn** to search for information online
- Improve their free time with meaningful activities when in their cells
- Stay on track what happens inside and outside the prison
- **Relax** and calm down in a virtual forest





### In a digital learning environment staff will...

**Benefit** from more flexible work flows

- **Contact** prisoners more proactively face-to-face
- Interact with prisoners in new ways online

**Supervice** digitally

Learn digital skills

**Guide** prisoners to use digital services

**Adopt** values and attitudes supporting

- New prison concept
- New prison officer concept including both security and rehabilitative work





### Integrations 2021 -



- New offender management system
  - Use of AI in offender management
- Prisoner health care management system
- Prisoner payment card
- Integrating other systems that are now separate?





# Some digital specialities





### NGOs

#### Digital Leap

Basic skills & coding / image processing



#### Visible Women

Online psychologist's consultation



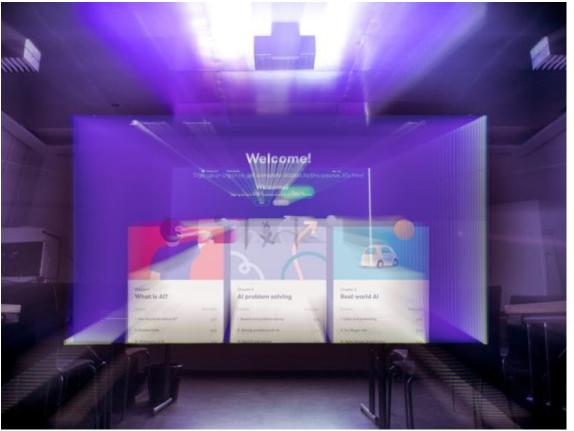
Krits – Finnish Foundation for Supporting Ex-offenders

Kalliola Settlement Activities





### **Prisoners learning Artificial Intelligence (AI)**



Elements of Al © Helsinki University & Reaktor

- 6 modules: defining AI, problem solving, probabilities, machine learning, neural networks, future implications
- □ Advanced course is coming...

Photo: Matti Ahlgren / Aalto University





#### **VR - Virtual forest**



University of Tampere - Nukarinen, Istance, Rantala, Mäkelä, Korpela, Ronkainen, Surakka & Raisamo (2020). Physiological and Psychological Restoration in Matched Real and Virtual Natural Environments. Proceedings of CHI EA '20, ACM, pp. 1-8.



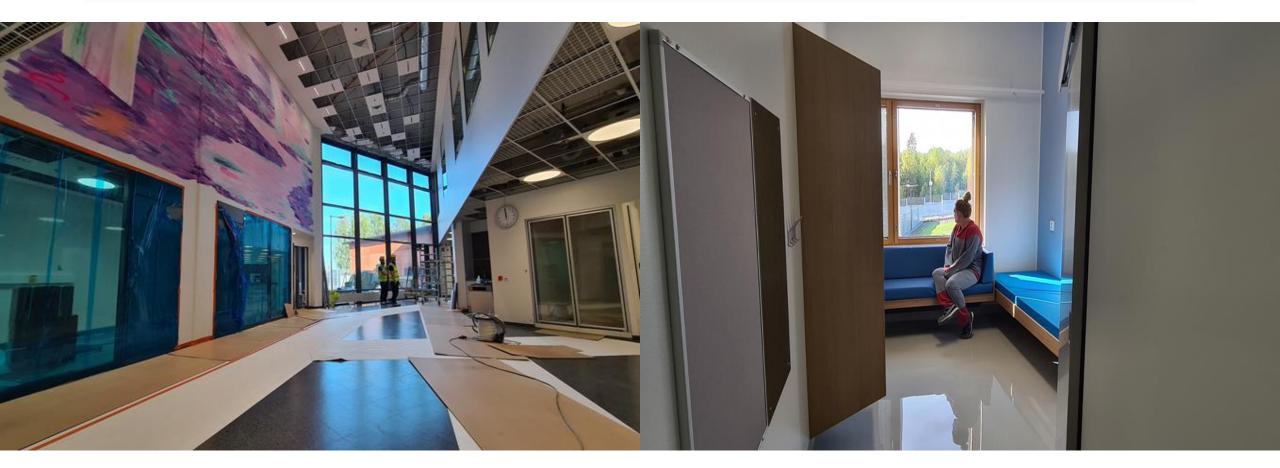








#### **Substance abuse rehabilitation wards**



Online self-help materials and online programmes





#### **Chapel & facilities for spiritual practice**



Streamed spiritual events for isolated prisoners?





# Daily living

#### Kitchen



#### Cafeteria



Canteen and online material for learning to manage household and financial matters





#### **Recreation & Library**

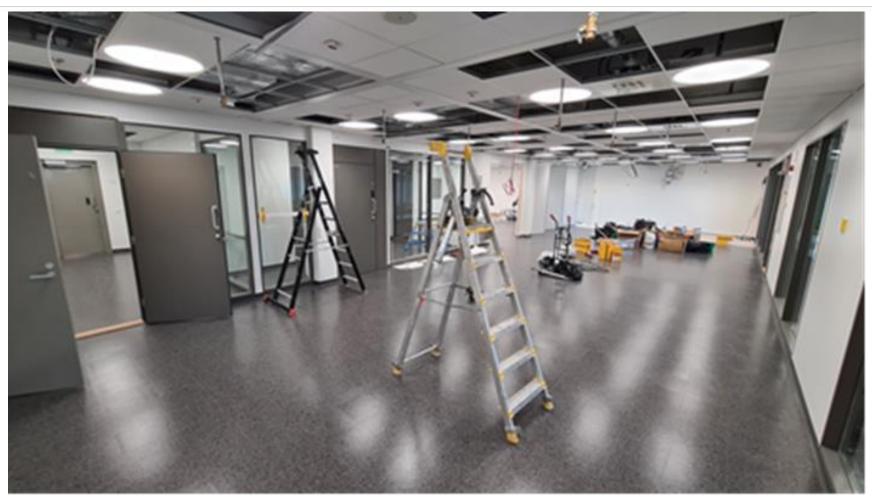


News, radio and e-libraries





#### **School & vocational education**



E-learning material, e-books and audiobooks





#### **Child care & parenting**



Online material for parenting skills & NGOs' websites







# **Future**





## Data and digitalisation strategy 2021-



Towards socially inclusive digital society

Finnish Institute for Health and Welfare & Laurea University of Applied Sciences

**Digiln** research project: effects of smart prison

- Effects of covid-19: use of digital services increases for good
- Target of digital leap: 10 % of services are used digitally
- Extending the smart system to all prisons

>smart probations?





#### **Our story continues**



Business Insider: At prisons in Finland, inmates are learning AI and taking online tech courses as a bridge to life on the outside

<u>https://www-businessinsider-</u> <u>com.cdn.ampproject.org/c/s/www.busi</u> <u>nessinsider.com/finland-prisons-</u> <u>technology-ai-online-classes-2020-</u> <u>8?amp</u>





### **Smart Prison opening on the 2 November 2020!**



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