



Aalto-yliopisto  
Teknillinen korkeakoulu

# ONKI Living Lab

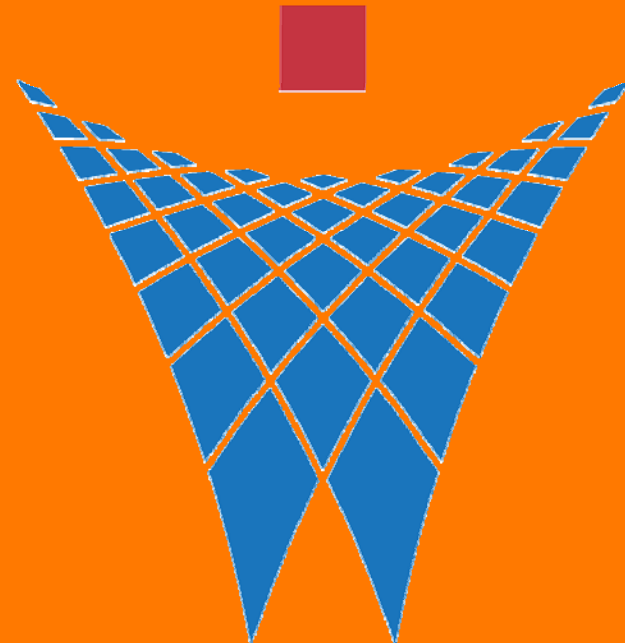
## -ontologiapalvelut käytettävissä

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Aalto-yliopisto

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Käytiin onkimassa.

Tuliko kalaa?

Joo, oikea vonkale!

## Yhteinen käsitteistö mahdollistaa kommunikation.

Käytiin onkimassa.

Tuliko kalaa?

Joo, oikea vonkale!

## ONGINTA liittyy KALASTUKSEEN

Käytiin onkimassa.

Tuliko kalaa?

Joo, oikea vonkale!



## VONKALE synonyymi KALALLE

Käytiin onkimassa.

Tuliko kalaa?

Joo, oikea vonkale!

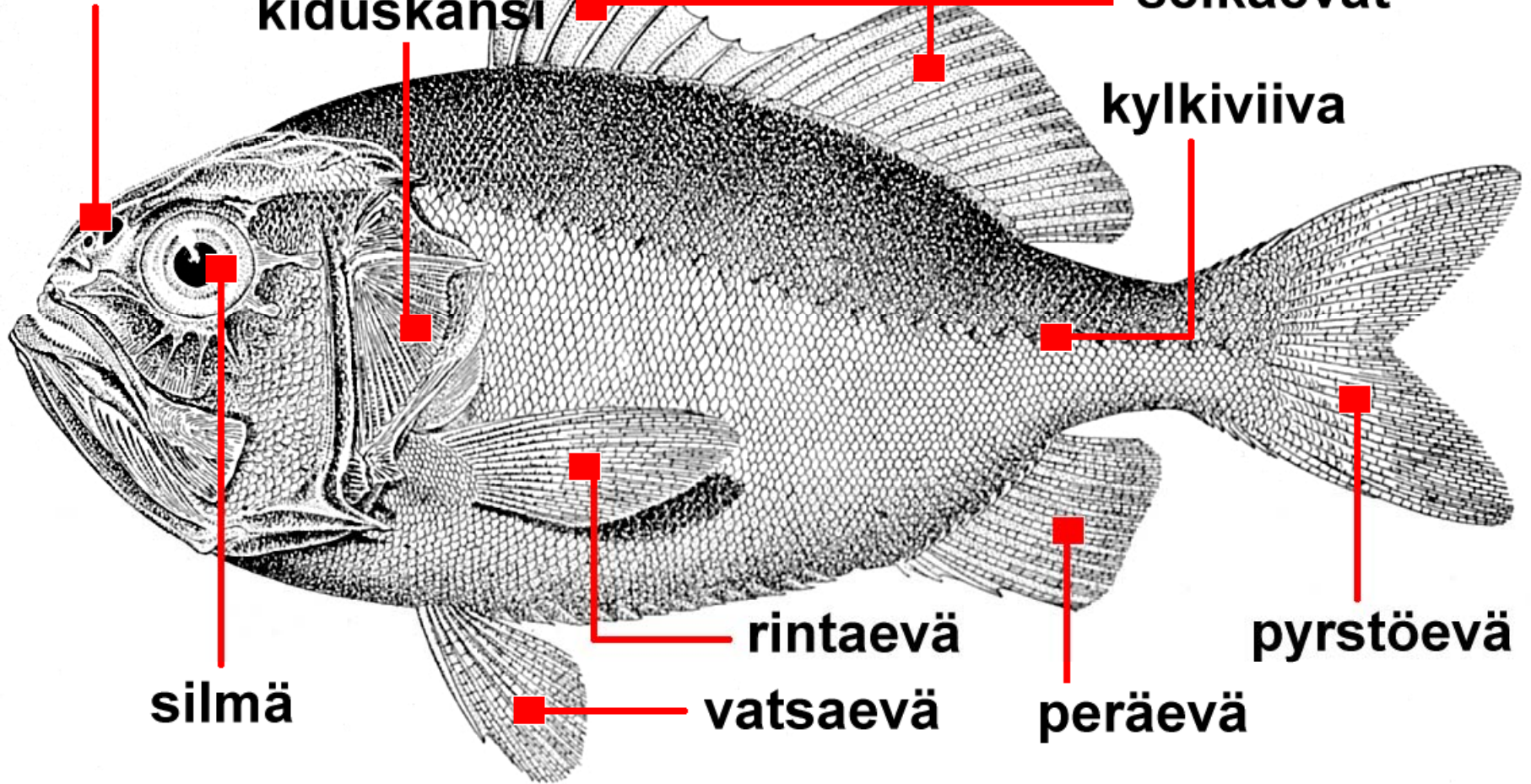
**Mitä tiedämme kaloista?**

**sierain**

**kiduskansi**

**selkäevät**

**kylkiviiva**



**silmä**

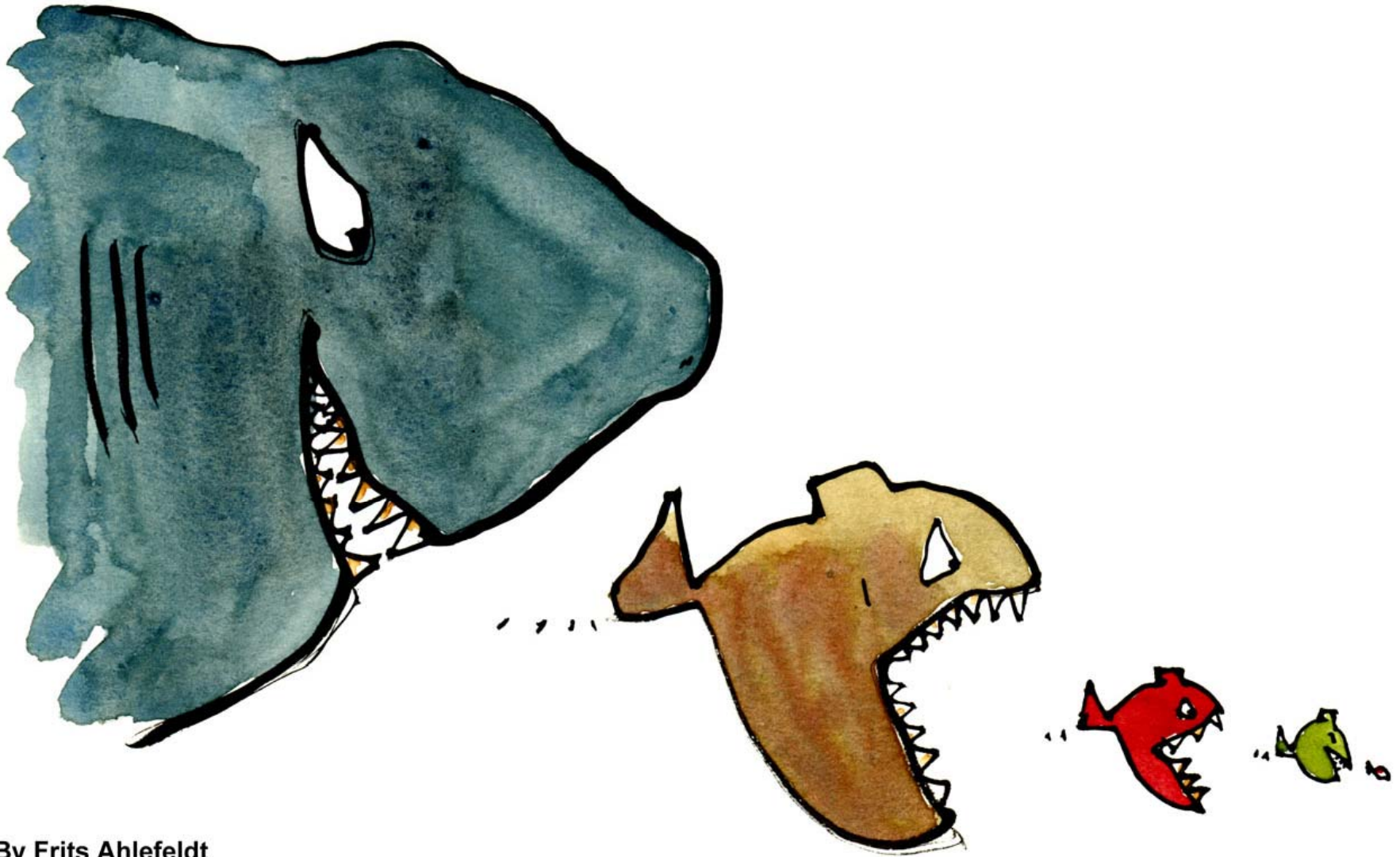
**rintaevä**

**vatsaevä**

**peräevä**

**pyrstöevä**

# Kalojen välisiä suhteita.



By Frits Ahlefeldt

**Kalan ja sitruunan suhde.**







**Kala elinkeinona.**



**Ympäristö.**

**Miten opetettaisiin  
tietokoneelle kaloista?**



# Kalat toisille helppoja, toisille ei



**Miksi pitäisi opettaa  
tietokoneelle kaloista?**

# Seitsemän syytä semanttiseen webiin<sup>[1]</sup>

## 1. Parempaa palvelua ihmisille

- semanttinen tiedonhaku, semanttinen suosittelu, jne.

## 2. Yhteentoimivat järjestelmät

- järjestelmät yhteismitallisiksi merkitystasolla

## 3. Monikäyttöinen sisältö

- sama semanttinen sisältö monessa sovelluksessa
- yleistää XML:n monikanavajulkaisun sisällölliselle tasolle

## 4. Joustava sisältöjen yhdistäminen

- eri sisällöt samassa sovelluksessa

## 5. Hajautettu sisällöntuotanto

- tuotanto voidaan hajauttaa ja sisältö yhdistää semantiikan avulla

## 6. Kieli- ja kulttuurirajojen ylitys

- käsitteet pitkälti samoja kielestä riippumatta, esim. *tuoli*

## 7. Web-palveluiden julkaisu & hajautettu hyödyntäminen

- esim. valtionhallinnon portaalit voivat käyttää toisiaan

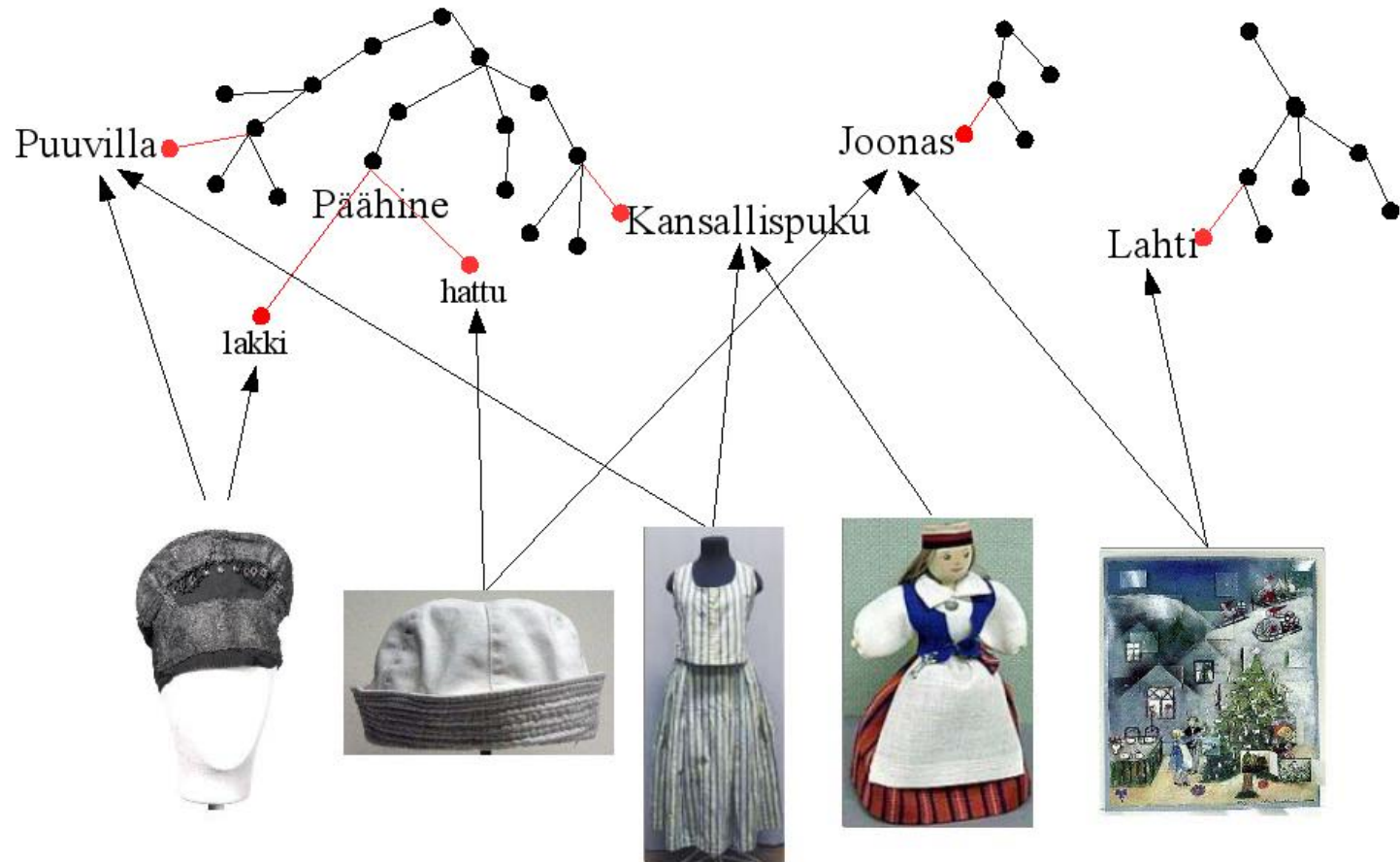
[1] Eero Hyvönen, 2006



# Eli esimerkiksi Suomen eri museot

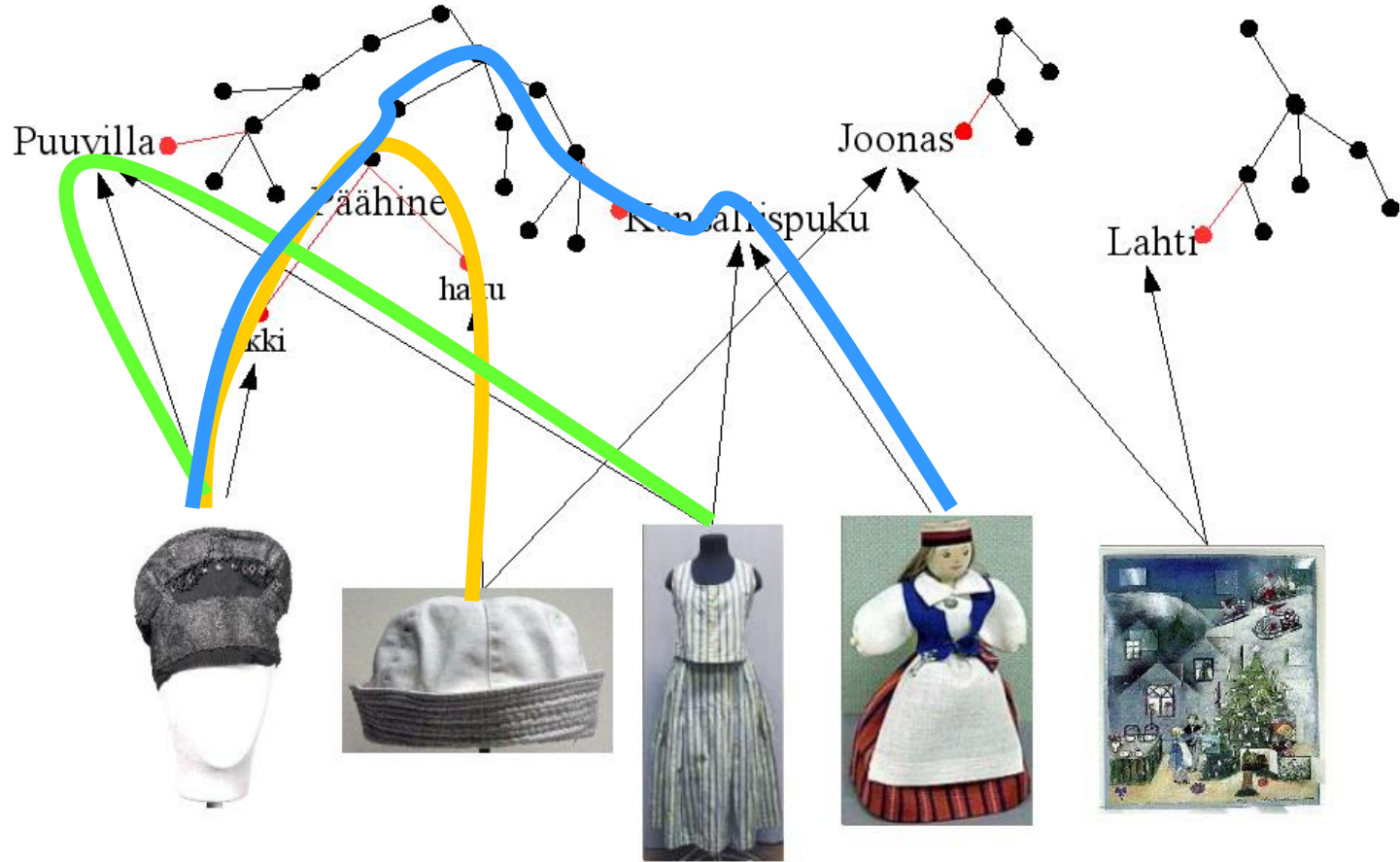


# Eli esimerkiksi Suomen eri museot





# Eli esimerkiksi Suomen eri museot





News 20.3.2009: functionalities improved (search, recommendation, Kalevala visualization), new content (including exhibitions and events) added.

### Map Browse and Search

Browse past and present places, areas and maps, and examine associated items.

### Relation Search

How is Akseli Gallen-Kallela connected to the French emperor Napoleon I?

### Search and Organize

Set the material into contexts by approaching it from different angles.

### Collections

Which collections are included in CultureSampo?

### Finnish History 1860-1919

Browse historical events.

### Skills

Familiarize yourself with semantically described skills.

### Biographies

Browse semantically enriched biographies.

### Semantic Kalevala

Browse Kalevala on the semantic web.

### Information about Karelia

Material about Karelia on Wikipedia, semantically enriched.

#### Last Viewed:

folk poem : [Väinämöinen viisas poika Ruskian venosen souti...](#)

folk poem : [Noijan laulu.](#)

literary work : [Kerttu, karjakon stoori](#)

folk poem : [Kammiolla istuja.](#)

video : [Kielimatka Kiinaan: kalligrafian sinetti](#)

CultureSampo is designed to work with the latest [Firefox 3](#) browser. We also strive to support the latest [Internet Explorer 7](#), but due to some of its peculiarities IE all might not work exactly as intended.

Search site



Kansalaisen portti luotettavaan terveystietoon

suomeksi | på svenska | in English

HOME INDEX A-Z



HealthFinland is a channel to a wide selection of reliable health information produced by Finnish research and expert organizations, government institutions and health organizations.

[Läs mera...](#)

Topic areas

- Food and nutrition**  
diet and eating habits, foodstuffs, nutrients...
- Exercise**  
(hälsomotion), fitness and physical activity, sports...
- Weight control**  
body mass index, fatness, overweight...
- Sexuality**  
sexual health, sexual intercourse, sexually transmitted diseases...
- Family and children**  
breastfeeding, delivery, pregnancy...
- Intoxicants**  
alcohol, intoxicant problems, smoking...
- Catastrophes**  
chemical accidents, disasters, terrorism...
- Epidemics and infectious diseases**  
bacteria, infectious diseases, vaccines...
- Mental health and sleep**  
depression, mental disorders, sleep and sleep disorders...
- Violence and crises**  
marginalisation, violence...
- Conditions and symptoms**  
conditions, symptoms, treatment methods...
- Accidents and first aid**  
accident prevention, accidental falls, wounds and injuries...
- Finding help**  
care institutions, health centres, public health service...
- Environment**  
air, residential environment, water...
- Occupational health**  
koulutus, toimintakyky, työ...

Largest topics

(hälsomotion) adult type diabetes adults babies child diabetes dietetics health health promotion infectious diseases instructions juvenile type diabetes men **physical training prophylaxis research** risk factors smokers smoking symptoms vaccination vaccines women **young people**

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- [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#)
- [Y](#) [Z](#) [Å](#) [Ä](#) [Ö](#)

News

- **Cross-language searches improved**  
20.10.2008  
The portal now defaults to searching over materials in any language. Most of the material is in Finnish. Searches can still be restricted to a specific language using the language selection facility above the search results.
- **Portaalin aineistoja päivitetty**  
18.9.2008  
Portaalin aineistoihin kuuluvat Savonia-ammattikorkeakoulun raskaus- ja vauva-aiheiset artikkelit on nyt päivitetty.

Aineistot ovat vielä keskeneräisiä ja niitä kehitetään parhaillaan portaalin tuotantoversioon.

Portaalin tuotantoversio julkaistaan huhtikuussa 2009 osoitteessa **terveysuomi.fi**.
- **TerveSuomi-portaalin prototyyppe julkistettu**  
12.9.2008  
Kansanterveyslaitoksen johdolla kehitteillä olevan kansalaisen terveystietoportaalin TerveSuomi.fi prototyyppe on valmistunut osana Tekesin rahoittamaa kansallista FinnONTO-kehityshanketta 2003-2010.

[Julkistamistilaisuuden ohjelma ja lisätietoja](#)













Home • The Administration • Open Government Initiative



## Open Government Initiative

TRANSPARENCY • PARTICIPATION • COLLABORATION

[About Open Government](#)

[Innovations Gallery](#)

[Milestones](#)

[Cabinet Commitments](#)

[From the Inbox](#)

[Listening Sessions](#)

## Promoting Transparency in Government

[Subscribe](#)

Posted by [Peter Orszag](#) on December 08, 2009 at 10:52 AM EST



Download Video: [mp4 \(461MB\)](#)

On his very first day in office, President Obama signed a memorandum to all federal agencies directing them to break down barriers to transparency, participation, and collaboration between the federal government and the people it is to serve.

As an example of the steps taken in response, the White House, for the first time ever, now publishes the names of everyone who visits. We are also publishing online never-before-available data about federal spending and research. At Data.gov, for instance, what started as 47 data sets from a small group of federal agencies has grown into more than 118,000 today – with thousands more ready to be released starting this week. And in March, the Attorney General published updated FOIA guidelines, establishing a presumption in favor of voluntary disclosure of government information – an important step toward enabling the American people to see how their government works for them. There have been other advancements, from providing online access to White House staff financial reports and salaries, adopting a tough new state secrets policy, reversing an executive order that previously limited access to presidential records, and web-casting White House meetings and conferences.

By themselves, however, these steps do not provide the transformation in the philosophy of governing that the President wants. They are improvements over past practice, to be sure, and valuable ones. But more needs to be done.

### WHITE HOUSE BLOGS

[The White House Blog](#)

[Middle Class Task Force Blog](#)

[Council on Environmental Quality](#)

[Office of Management and Budget Blog](#)

[Office of Public Engagement](#)

[Office of Science & Tech Policy Blog](#)

[Open Government Blog](#)

[US Trade Representative Blog](#)

### CATEGORIES

[Civil Rights](#)

[Defense](#)

[Disabilities](#)

[Economy](#)

[Education](#)

[Energy & Environment](#)

[Ethics](#)

[Family](#)

[Fiscal Responsibility](#)

[Foreign Policy](#)

[Health Care](#)

[Homeland Security](#)

[Immigration](#)

[Poverty](#)

[Rural](#)

[Seniors & Social Security](#)

[Service](#)



# government 2.0 taskforce

Design by Ben Crothers of Catch Media CC BY 2.5

[Home](#) [About](#) [Members](#) [Projects](#) [Moderation](#) [Roadshows](#) [Submissions](#)

## Engage: Getting on with Government 2.0 (draft)

### Draft Report of the Government 2.0 Taskforce

#### What's in a name?

The invitation to “engage” is both a call to action and affirmation of the vision towards which that action leads. This is the promise of Government 2.0. “Engagement” is what Government 2.0 is all about:

- ★ Easy to find re-useable public information is, at heart, an invitation to the wider community to engage innovate and create new public value with public sector information (PSI), which often sits underused or simply ignored in government agencies and data banks. As we have seen during our work, as people engage, possibilities – foreseeable and otherwise – are unlocked through the invention, creativity and hard work of citizens, business and community organisations. The government's job is to liberate much more of its information as a key national asset.
- ★ Public agencies and professional public servants are also invited to engage more energetically with the tools and capabilities of ‘collaborative web’ or Web 2.0. Everything, from enabling data to be re-used, to forming and participating in online communities in their areas of interest will help build a public service that is smarter, more responsive, more strategic and personally rewarding.
- ★ Public agencies and their public servants increasingly associate good practice with deeper engagement with those outside the public service. As the new Australian Public Service Commission (APSC) guidelines make clear, Web 2.0 tools like blogs and wikis now provide unprecedented opportunities to take this much further.

In the transition from traditional consultation towards true community collaboration engaging the community and the public service alike is key. In this more open, connected and instinctively adaptive and innovative process, the motivation, interest and skills of all involved contributes to it success.

- ★ Engagement between those in and outside the public service is constrained by the need for public servants to continue to be professional and apolitical. Creating the culture and practices that can seize the new opportunities but yet stay true to enduring public service

#### SEARCH

#### TAG CLOUD

access accessibility Best Practice Brainstorming  
community content **contests** Copyright cost  
**Crowdsourcing** culture data.australia.gov.au  
**engagement** ethics gov 2.0 gov 2au gov 2o  
**government2.0** government 2.0  
**Guest Blogger** Ideas IdeaScale Information  
Management Innovation Innovators Inquiries 2.0  
Issues Paper IT licensing Mashup Australia **Open**  
**Access** open source pricing Prizes Project Fund  
Projects **PSI** public service Roadshows social  
graph social media social networking standards  
Transparency **Web 2.0**

#### TASKFORCE LINKS

- > [Consultation Page](#)
- > [Draft Report of the Government 2.0 Taskforce](#)
- > [IdeaScale Page](#)
- > [International Reference Group](#)
- > [MashupAustralia Competition](#)
- > [Projects – Round One](#)
- > [Projects – Round Two](#)
- > [Propose a project to the Taskforce](#)

## Foreword

### Action Plan

#### The case for Smarter Government

#### Action 1: Strengthen the role of citizens and civic society

1.1 Giving people guarantees to high-quality public services

1.2 Accelerating the move to digitalised public services

1.3 Radically opening up data and promoting transparency

1.4 Encouraging greater personal responsibility

1.5 Building a stronger civic society

Action 1: Summary

#### Action 2: Recast the relationship between the centre and the frontline

#### Action 3: Streamline central government for sharper delivery

### Forward Plan

### Contact

## 1.3. Radically opening up data and promoting transparency

Entitlements guarantee access to and quality of services, and digital technology enables more services to be joined up and online. It is equally vital to use new technology to harness people's appetite and ability to drive up service standards. In the past, much public service improvement was driven by the force of government targets set by central government. In the future, much more of the pressure for improvement can come from the local level.

Ultimately, a more informed citizen is a more empowered citizen. In a modern democracy citizens rightly expect government to show where money has been spent and what the results have been.<sup>19</sup> With the interactive capabilities of the web, government can offer citizens and communities the chance to pass comment on services in real time. The website <http://www.lovelewisham.org/> encourages residents to report graffiti and fly-tipping for quick removal, and since its launch there has been an 8% decrease in graffiti and 30% reduction in complaints.<sup>20</sup> The new online crime maps which went live in October 2009 mean that for the first time everyone in the country can search by postcode for facts about crime in their area and what is being done by the police and courts to deal with it.<sup>21</sup>

Across the UK both informal and professional groups use the internet to share information and drive change. Teachers, for example, share lesson plans through the TES Connect resource to save time and to learn from others.<sup>22</sup> Most recently, volunteers have updated base maps on the Open Street Map website to show where roads and bridges have been blocked by flooding or damage.<sup>23</sup> Many local councils offer communities the opportunity to propose projects that offenders work on as part of Community Payback and to choose how assets seized from criminals are spent. Building on crime mapping, the Home Office is piloting ways to allow people to use police data on late-night incidents to help them choose the safest routes home - and to post travel tips for others.

### Case study: TES Connect<sup>24</sup>

TES Connect contains an online resources exchange for teachers to share lesson plans, and is the largest online professional network in the UK, with 870,000 registered users. The resources part of the site receives 850,000 visits per month with 2,000,000 teaching resources being downloaded by the teaching community monthly. 97% of teachers believe that TES resources are effective or very effective in delivering their lessons. The TES estimates that the site is reducing duplicated work at a rate that will result in up to £1 billion of teaching time going back into the classroom by 2010/11 - equivalent to adding 30,000 full-time teachers.

Data can also be used in innovative ways that bring economic benefits to citizens and businesses by releasing untapped enterprise and entrepreneurship. Sir Tim Berners-Lee and Professor Nigel Shadbolt predict a significant increase in economic growth if more publicly held data are released for reuse.<sup>25</sup> A study by the University of Cambridge found that the growth to the UK economy from freely releasing just a subset of the public sector data that are currently sold could be £160 million in the first year alone.<sup>26</sup> And from a Cabinet Office pilot which involved better access to government data, developers were able to create new tools to better inform the public:

- Within a day of bike accident data being published online, it had been added to maps to help cyclists to make decisions about routes they take.
- After NHS dental surgery data went live, an iPhone application was created to show people the nearest surgery to any current location.

Public services are run and assessed on objective, non-personal 'public data' that are generated in the course of service delivery. The taxpayer has already paid for its collection, but does not always have the right to access it. Enabling access on the terms of our public data principles (see box) will create opportunities for third parties to develop innovations using free government data.

**Foreword**

**Action Plan**

**The case for Smarter  
Government**

**Action 1: Strengthen  
the role of citizens and  
society**

- 1.1 Giving people greater choice and high-quality public services
- 1.2 Accelerating the roll-out of digitalised public services
- 1.3 Radically opening up data and promoting transparency
- 1.4 Encouraging greater personal responsibility
- 1.5 Building a stronger society

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**Contact**

**1.3. Radically opening up data and promoting transparency**

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## **6. Julkisen sektorin hallussa oleva tieto on vapautettava**

Julkisen sektorin on luovuttava immateriaalioikeuksistaan. Tiedon keruu ja sen jakaminen mahdollisimman laajalle on tämän päivän digitaalista taloutta tukevaa, digitaalisen ajan julkista palvelua. Tietoturva ja -suoja on taattava, mutta keino näiden periaatteiden varjelemiseksi ei voi olla tiedon liikkumisen kategorinen estäminen ja lokerointi.

Julkisen sektorin tiedon pitää olla ilmaista. Maksuperustelain kaltaiset veloitussäännökset eivät kuulu tietoyhteiskunnan aikakauteen. Laki joutaakin romukoppaan.

**”Suomi tarvitsee”**





**Rautateitä,**





sähköverkkoja,





**GSM-standardeja**

**ja semanttisen webin  
infrastruktuurin!**



# Samaa mieltä ovat



KANSALLISKIRJASTO



m-cult



SUOMEN MAATALOUSHMUSEO SARKA

Suomen valokuvataiteen museo  
Finlands fotografiska museum  
The Finnish Museum of Photography



Antikvaria-ryhmä





**Eli siis:  
Miten kerrottaisiin  
tietokoneelle kaloista?**

”URI”

- Tim Berners-Lee



**Merkitään kaikki Internet-  
yhteensopivalla osoitteella  
= URI**

**Mallinnetaan käsitteiden  
väliset suhteet  
= ontologia**

yläkäsité: "eläimet", "eliöt", "orgaaninen rakenne" ...

<http://www.yso.fi/onto/koko/p35193>





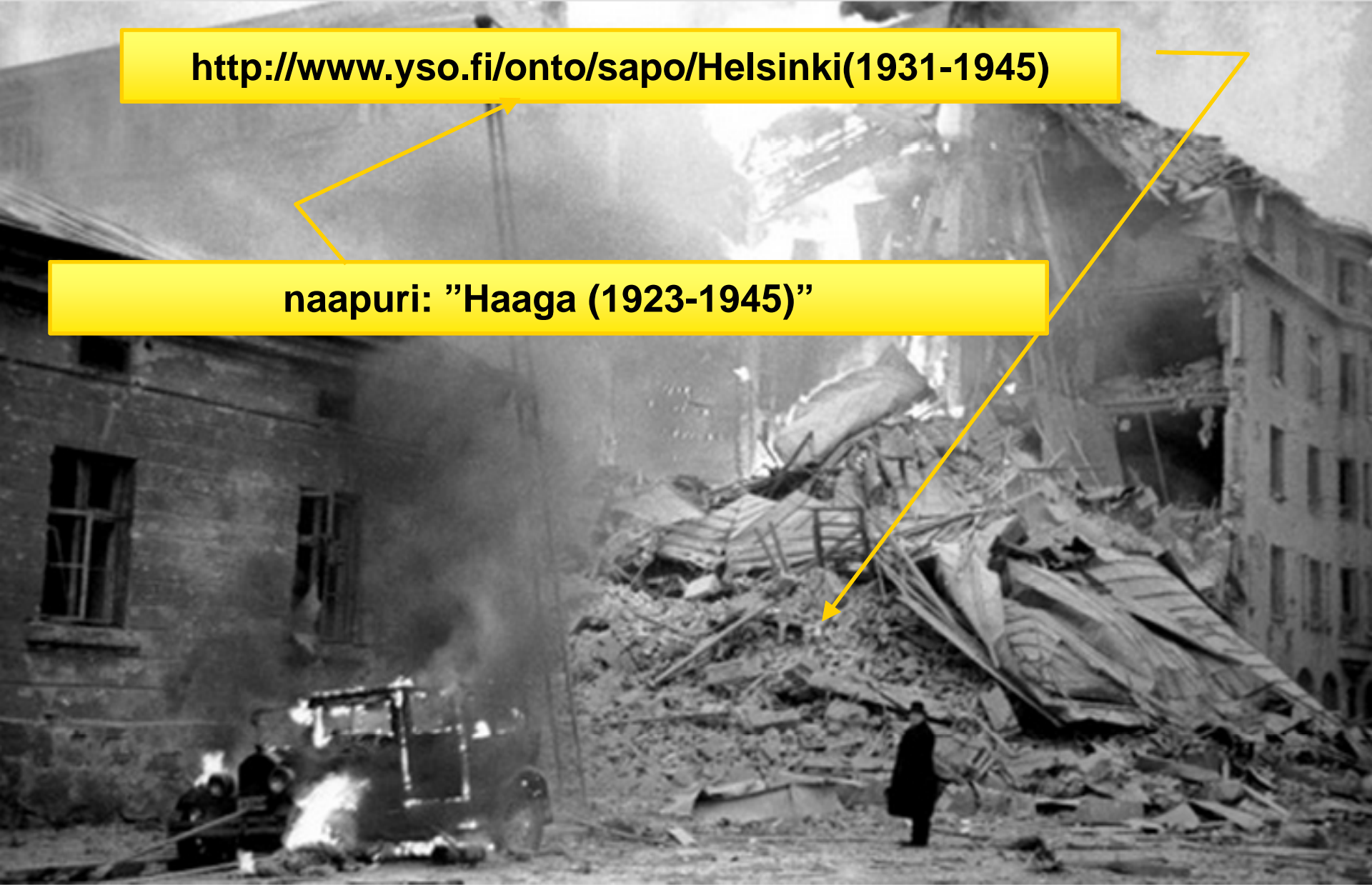
<http://www.yso.fi/onto/koko/p58>



**Esimerkiksi Helsinki...**

[http://www.yso.fi/onto/sapo/Helsinki\(1931-1945\)](http://www.yso.fi/onto/sapo/Helsinki(1931-1945))

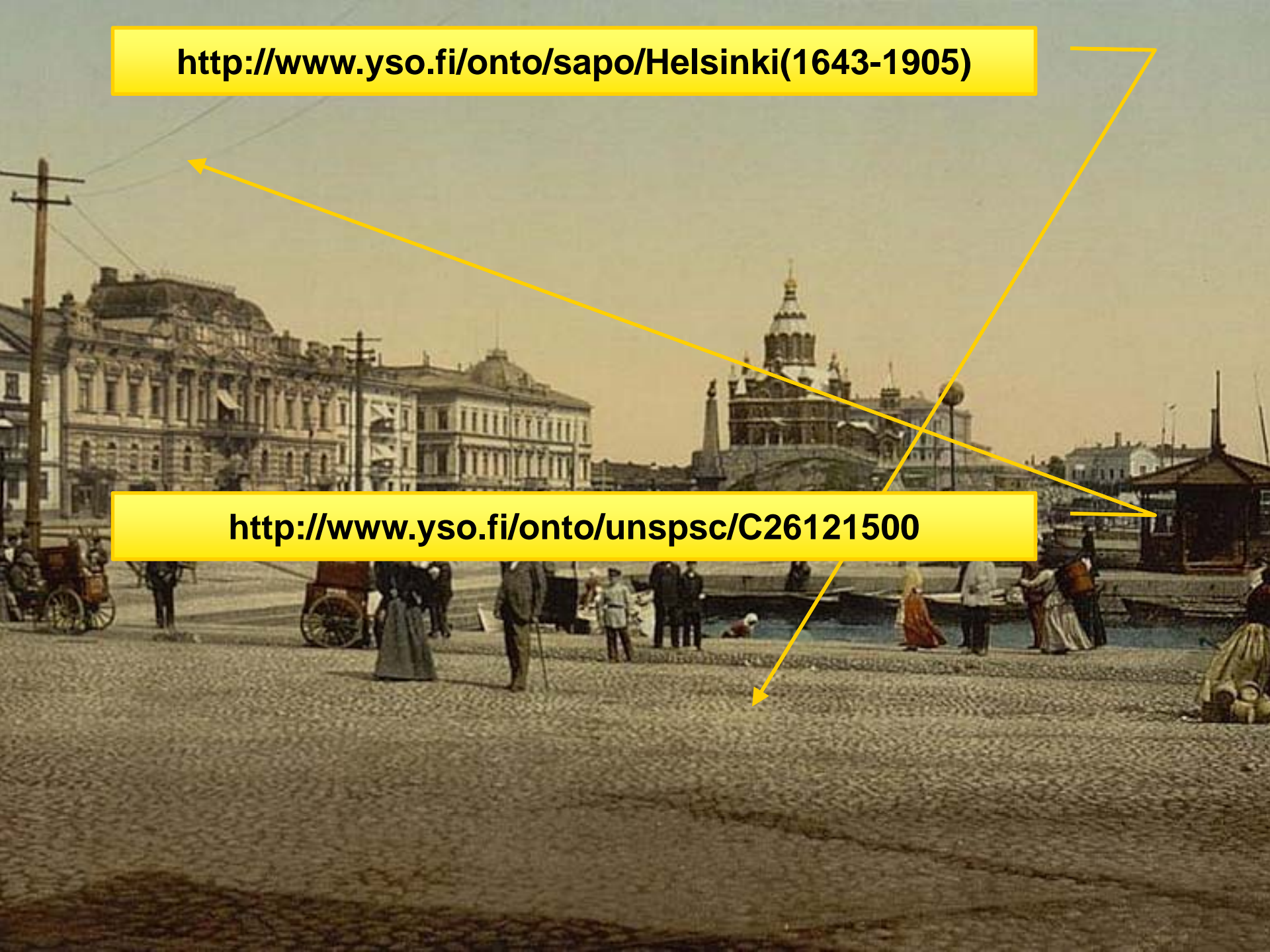
naapuri: "Haaga (1923-1945)"



Ilmapommituksen tuhoja Helsingissä 30. marraskuuta 1939. Kuva: SA-kuva.

[http://www.yso.fi/onto/sapo/Helsinki\(1643-1905\)](http://www.yso.fi/onto/sapo/Helsinki(1643-1905))

<http://www.yso.fi/onto/unspsc/C26121500>





**tai rankan musiikin harrastus...**



<http://www.yso.fi/onto/musa/p93>

[http://www.yso.fi/onto/consumer\\_service/parta](http://www.yso.fi/onto/consumer_service/parta)

on osa: "Miespuolinen" "Pää"

**Ja niin edelleen.**

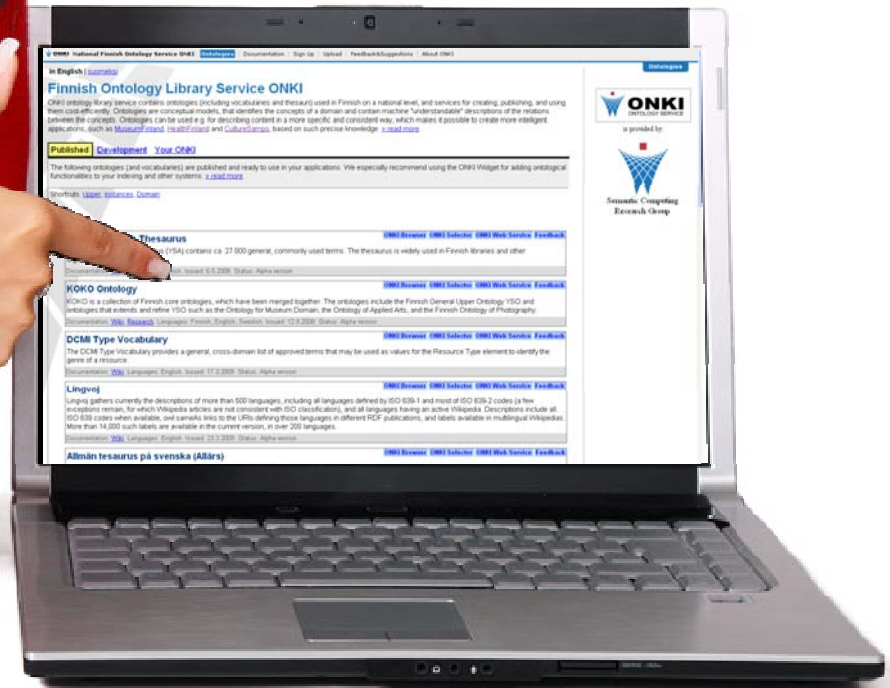
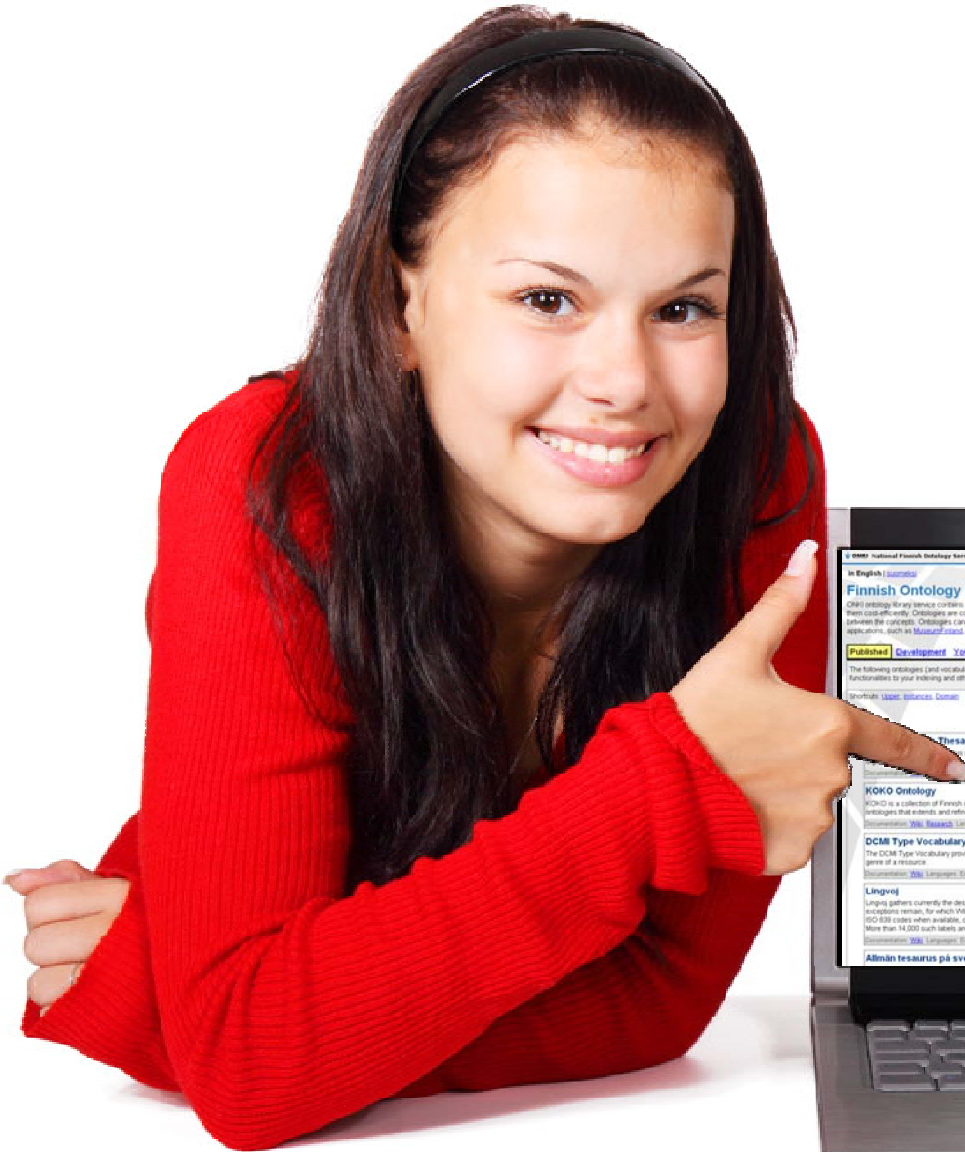
**Mistä URI:t löytää?**





# ONKI

## - aina ajantasalla



in English | [suomeksi](#)

# Finnish Ontology Library Service ONKI

ONKI ontology library service contains ontologies (including vocabularies and thesauri) used in Finnish on a national level, and services for creating, publishing, and using them cost-efficiently. Ontologies are conceptual models, that identifies the concepts of a domain and contain machine "understandable" descriptions of the relations between the concepts. Ontologies can be used e.g. for describing content in a more specific and consistent way, which makes it possible to create more intelligent applications, such as [MuseumFinland](#), [HealthFinland](#) and [CultureSampo](#), based on such precise knowledge. [» read more](#)



is provided by:



Semantic Computing  
Research Group

**Published** | [Development](#) | [Your ONKI](#)

The following ontologies (and vocabularies) are published and ready to use in your applications. We especially recommend using the ONKI Widget for adding ontological functionalities to your indexing and other systems. [» read more](#)

Shortcuts: [Upper](#), [Instances](#), [Domain](#)

## Upper

### General Finnish Thesaurus

[ONKI Browser](#) [ONKI Selector](#) [ONKI Web Service](#) [Feedback](#)

The General Finnish Thesaurus (YSA) contains ca. 27 000 general, commonly used terms. The thesaurus is widely used in Finnish libraries and other organisations.

Documentation: [Wiki](#). Languages: Finnish. Issued: 6.5.2008. Status: Alpha version

### KOKO Ontology

[ONKI Browser](#) [ONKI Selector](#) [ONKI Web Service](#) [Feedback](#)

KOKO is a collection of Finnish core ontologies, which have been merged together. The ontologies include the Finnish General Upper Ontology YSO and ontologies that extends and refine YSO such as the Ontology for Museum Domain, the Ontology of Applied Arts, and the Finnish Ontology of Photography.

Documentation: [Wiki](#), [Research](#). Languages: Finnish, English, Swedish. Issued: 12.9.2008. Status: Alpha version

### DCMI Type Vocabulary

[ONKI Browser](#) [ONKI Selector](#) [ONKI Web Service](#) [Feedback](#)

The DCMI Type Vocabulary provides a general, cross-domain list of approved terms that may be used as values for the Resource Type element to identify the genre of a resource.

Documentation: [Wiki](#). Languages: English. Issued: 17.3.2009. Status: Alpha version

### Lingvoj

[ONKI Browser](#) [ONKI Selector](#) [ONKI Web Service](#) [Feedback](#)

Lingvoj gathers currently the descriptions of more than 500 languages, including all languages defined by ISO 639-1 and most of ISO 639-2 codes (a few exceptions remain, for which Wikipedia articles are not consistent with ISO classification), and all languages having an active Wikipedia. Descriptions include all ISO 639 codes when available, owl:sameAs links to the URLs defining those languages in different RDF publications, and labels available in multilingual Wikipedias. More than 14,000 such labels are available in the current version, in over 200 languages.

Documentation: [Wiki](#). Languages: English. Issued: 23.3.2009. Status: Alpha version

### Allmän tesaurus på svenska (Allårs)

[ONKI Browser](#) [ONKI Selector](#) [ONKI Web Service](#) [Feedback](#)

Allårs (Allmän tesaurus på svenska) on YSA:n (Yleinen suomalainen asiasanasto) ruotsinkielinen käännös. Sisältö päivittyä päivittäin.

Documentation: [Wiki](#). Languages: Swedish. Issued: 14.11.2009. Status: Alpha version

## Instances

### Geography

#### The Finnish Geo-ontology

[ONKI Browser](#) [ONKI Selector](#) [Feedback](#)



# Ontologioita ONKI:ssa tänään

AMS, Aikakauslehtisanasto, Allmän tesauros på svenska – Allärs, Art & Architecture Thesaurus – AAT, DCMI Type Vocabulary, Disaster ontology, Eläkeontologia, Eläkesanasto, Erytisryhmä-ontologia, Eurooppalainen monikielinen terveyden edistämisen sanasto, Getty Thesaurus of Geographic Names – TGN, Iconclass, Integrated Public Sector Vocabulary – IPSV, KOKO-ontologia, Kaunokki-ontologia – KAUNO, Kaunokki-tesaurus, Kieliontologia, Koordinaattien haku, Kuluttajan ontologia, Library of Congress Subject Headings – LCSH, Liiketoimintaontologia – LIITO, Lingvoj, Lusto: Aikaontologia, Maailman linnut -ontologia – AVIO, Maailman nisäkkäät -ontologia – MAMO, Medical Subject Headings – MeSH, Merenkulkualan asiasanasto – MESA, Museoalan ontologia – MAO, Musiikin asiasanasto – MUSA...

# Ontologioita ONKI:ssa tänään

Musiikin ontologia – MUSO, Paikkaominaisuus-ontologia, Palveluluokitus-ontologia, Ryhmätyyppi-ontologia, Stakesin asiasanasto STAMETA, SuhteellinenAika-ontologia, Suomalainen paikkaontologia – SUO, Suomalainen paikkaontologian luokat, Taideteollisuusalan ontologia – TAO, Terveysten edistämisen ontologia – TERO, The United Nations Standard Products and Services Code – UNSPSC, Toimialaluokitus-ontologia, Toimijaontologia – TOIMO, Toiminnantyyppi-ontologia, Valokuvausalan ontologia – VALO, Valtioneuvoston asiakirjaontologia, Valtioneuvoston asiasanasto, Viikin tiedekirjaston ontologia – AFO, Yleinen suomalainen asiasanasto – YSA, Yleinen suomalainen ontologia – YSO, Yrittäjän käsitteistö, yms.



**Yhteensä 287 752 käsitettä**

**+ 800 000 paikkaa**

**+ ei-julkiset ontologiat**

**...**

Tämä sivu on saatavilla seuraavilla kielillä:

Afrikaans Български Català Dansk Deutsch Ελληνικά English English (CA) English (GB) English (US) Esperanto  
 Castellano Castellano (AR) Español (CL) Castellano (CO) Español (Ecuador) Castellano (MX) Castellano (PE)  
 Euskara Suomi français français (CA) Galego עברית hrvatski Magyar Italiano 日本語 한국어 Macedonian  
 Melayu Nederlands Norsk Sesotho sa Leboa polski Português română slovenski jezik srpski srpski (latinica)  
 Sotho svenska 中文 華語 (台灣) isiZulu



## Nimeä 1.0 Suomi

### Sinulla on vapaus:



**Jakaa** — kopioida, levittää, näyttää ja esittää teosta



**Remixata** — valmistaa muutettuja teoksia



### Seuraavilla ehdoilla



**Nimeä.** You must attribute this work to **FinnONTO Consortium, Finnish National Library** (with link).

#### Attribute this work:

`<div xmlns:cc="http://creativecommons.org/ns#" about=""` ⓘ

- Uudelleenkäyttäessäsi tai levittäessäsi tätä teosta, sinun tulee tehdä selväksi muille tämän teoksen käyttäjille nämä lisenssiehdot. Voit tehdä sen esimerkiksi linkillä tähän sivuun.
- Tämän lisenssin rajoituksista voidaan luopua tekijänoikeuden omistajan antamalla luvalla.
- Lisenssi ei rajoita tekijän moraalisia oikeuksia.

Vastuuvapauslauseke

**Tämä lisenssi ei vaikuta tekijänoikeuslain rajoituksiin tai muiden lakien myöntämiin oikeuksiin.**

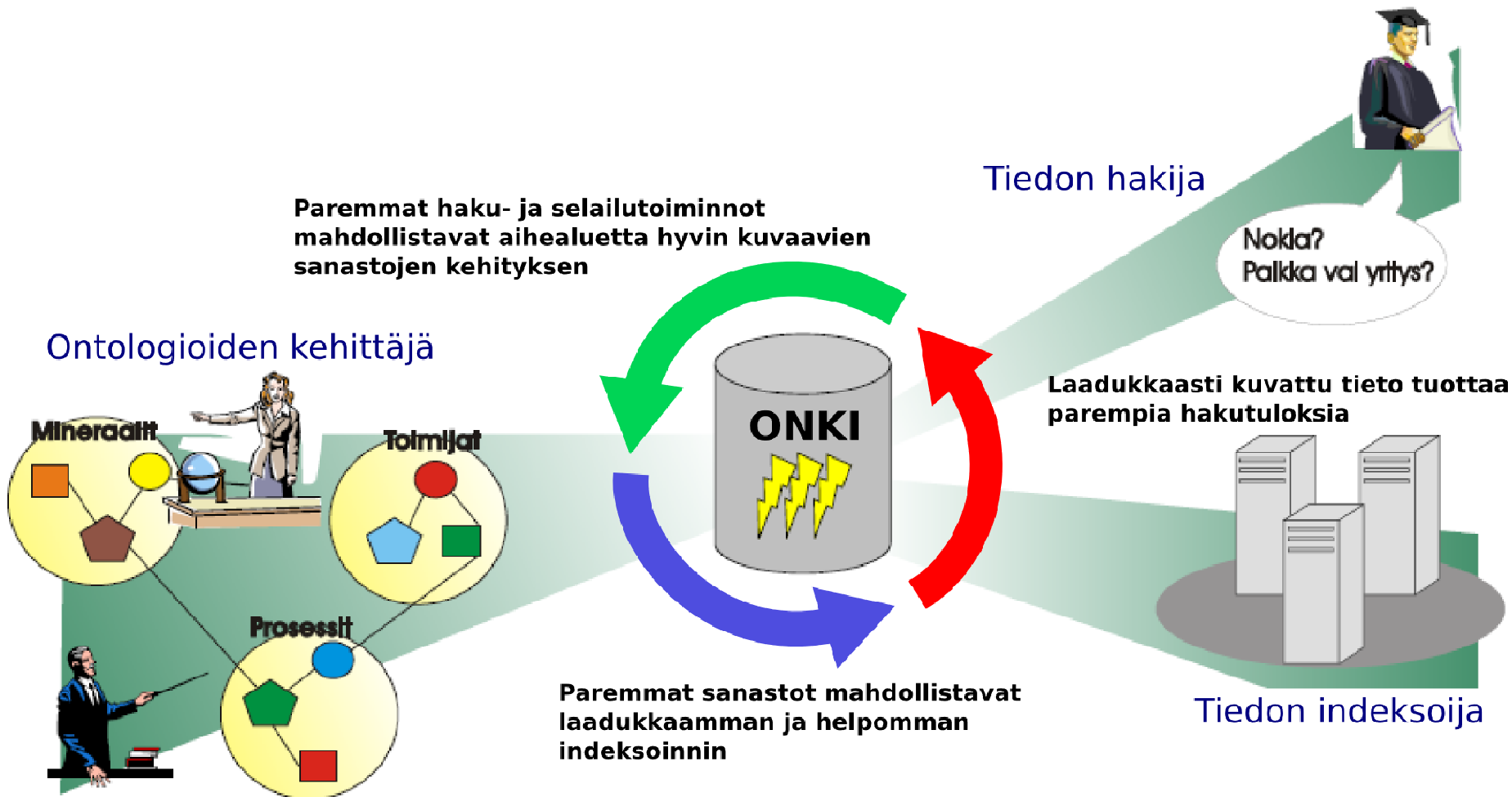
Tämä on tiivistelmä (täydellisestä)juridisesta lisenssistä.

Opi kuinka voi levittää teoksiasi käyttämällä tätä lisenssiä

# Mihin tarpeisiin ONKI vastaa?

- Ontologioiden käyttöönoton helpottaminen
  - Yhteenlinkitettyjen ontologioiden kehittäminen
  - Julkaisukanava ontologioille
  - Semanttisen webin mahdollisuuksien laajamittainen mahdollistaminen Suomessa (ja maailmalla)
  - Valmiita komponentteja ja palveluita kehittäjille
- = Miten saat tietosi semanttiseen webiin?  
= Miten hyödyntää semanttisen webin tietoja?

# ONKI:n käyttäjät

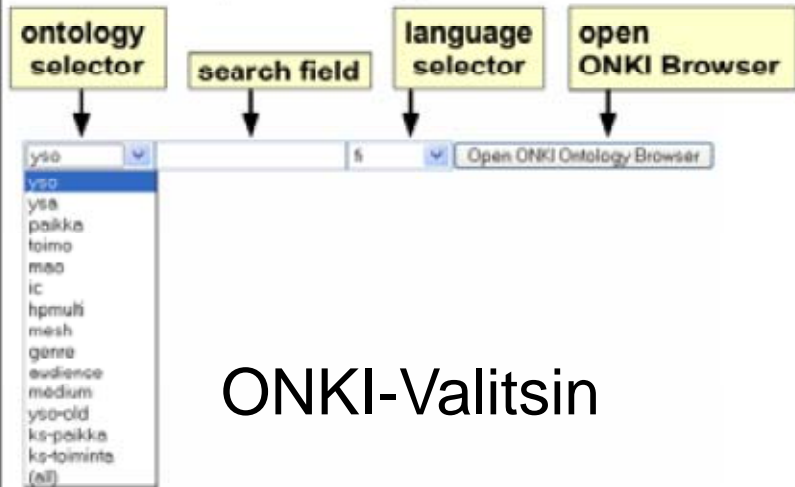


**Indeksoijat, tiedonhakijat,  
sovelluskehittäjät**



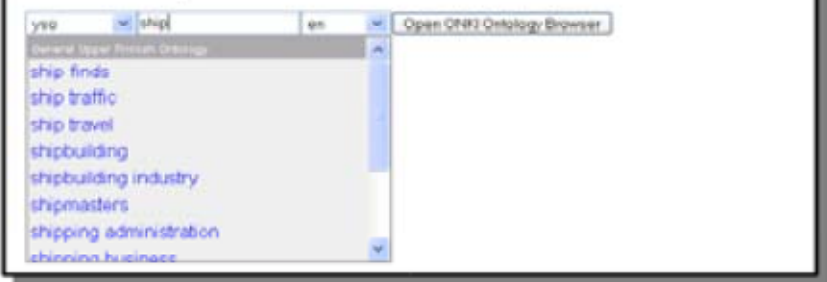


# 1. ONKI Concept Search Widget in default state

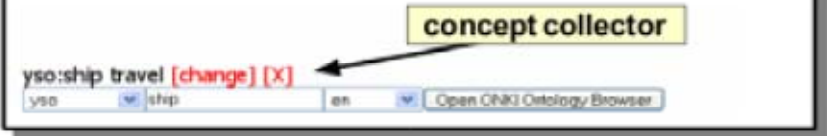


ONKI-Valitsin

# 2. Autocompletion search result



# 3. Concept collector for selected concepts



## Subject:

- matelijat
- 25F4: matelijat (liskot, kaärmeet, ym.)
- yso: matelijat**

**Hierarchy**

- L2: Nature
- L25: earth, world as celestial body
- L25F: animals
- L25F4: reptiles**
- L25F41: lizards
- L25F42: snakes
- L25F43: crocodiles
- L25F44: tortoises, turtles

**Related Concepts**

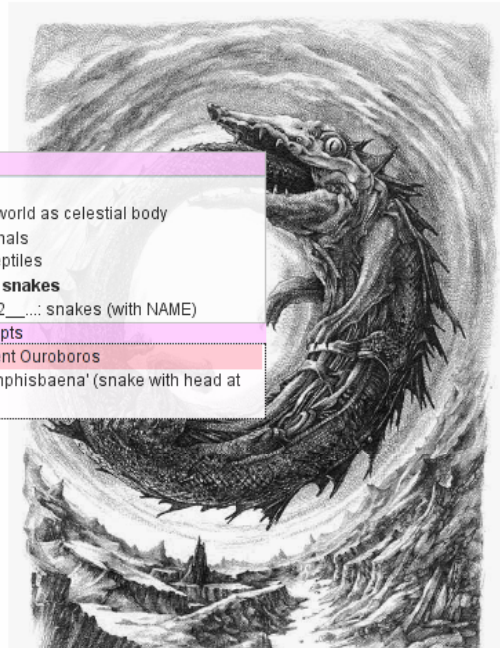
- L34B31: terrarium

**Hierarchy**

- L2: Nature
- L25: earth, world as celestial body
- L25F: animals
- L25F4: reptiles
- L25F42: snakes**
- L25F42\_\_...: snakes (with NAME)

**Related Concepts**

- L3A21: serpent Ouroboros
- L5FF424: 'amphisbaena' (snake with head at both ends)



IRMA

# Ontologiat sovelluksissa

# ONKI API

## Web service, REST, AJAX

- `getConcept(str)`
- `getLabel(uri)`
- ...

# Ontologiat myös ladattavissa

- edistyneisimpiin tarpeisiin
- tee se itse -ihmisille

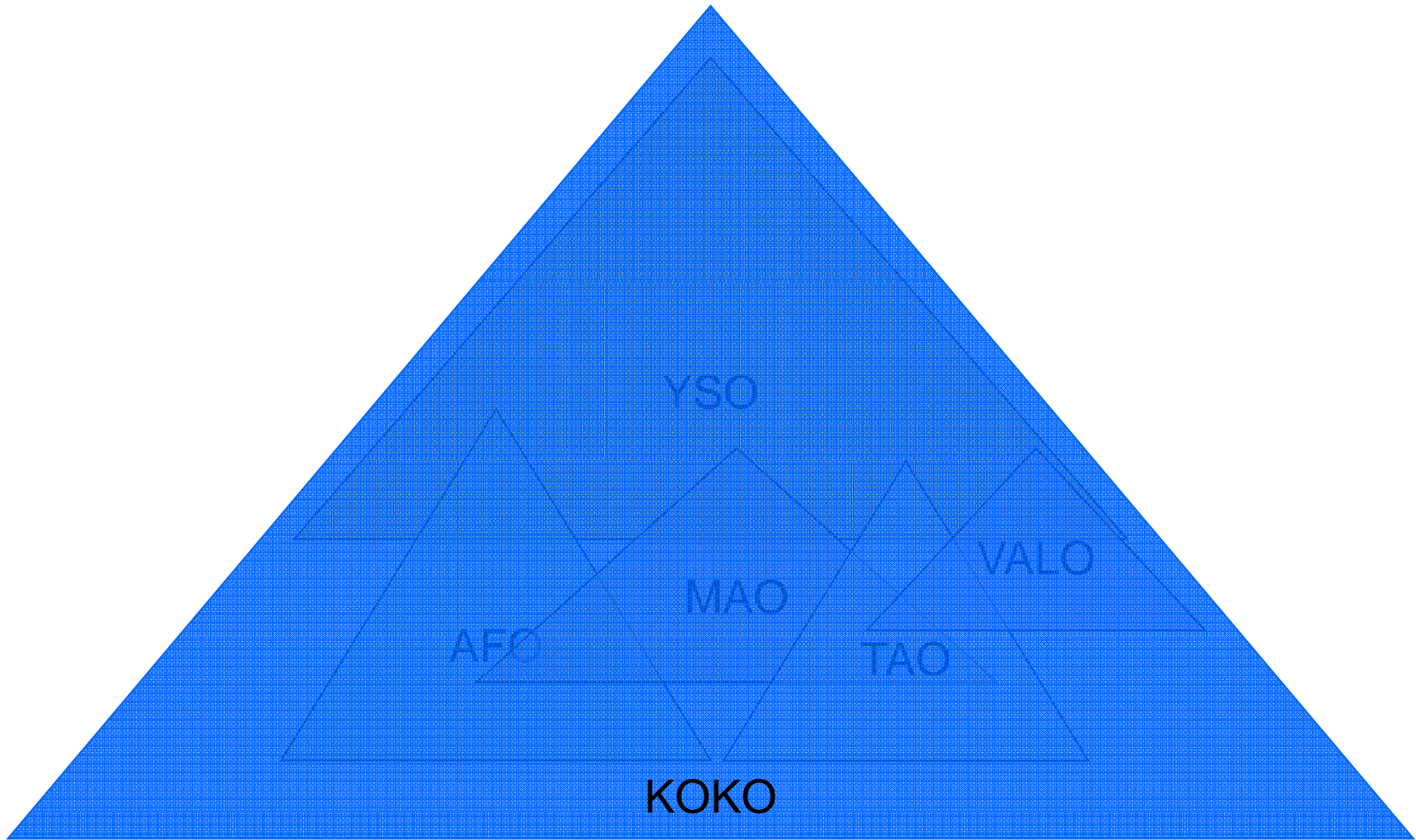


# **Yhteisöllinen ontologiakehitys ja julkaisu**

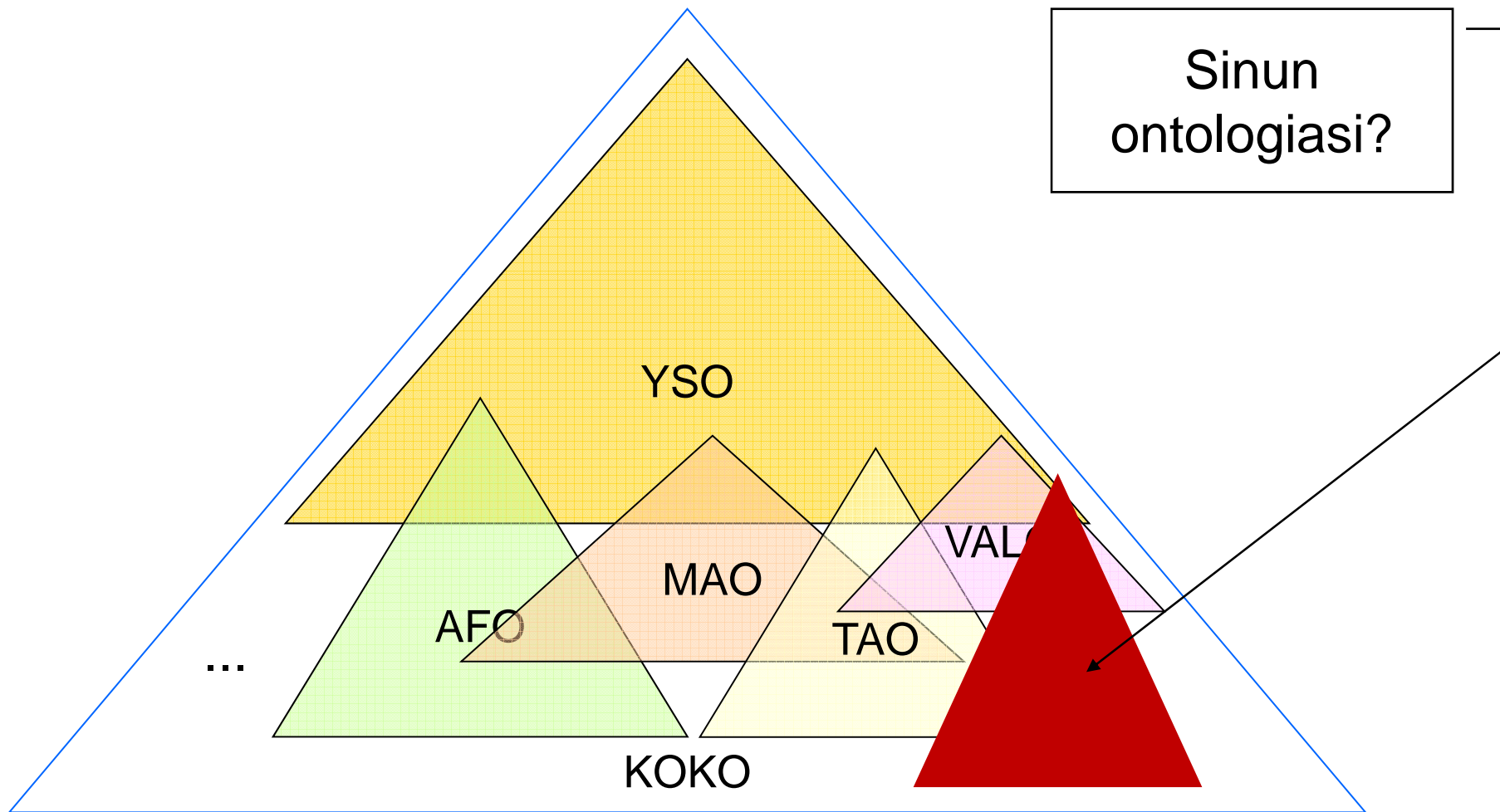
- **yhteenlinkitettyjen ontologioiden tukeminen**
- **yhteensopivuus Suomessa ja maailmalla**
- **hyvät käytännöt**



# Ontologiat on linkitetty toisiinsa



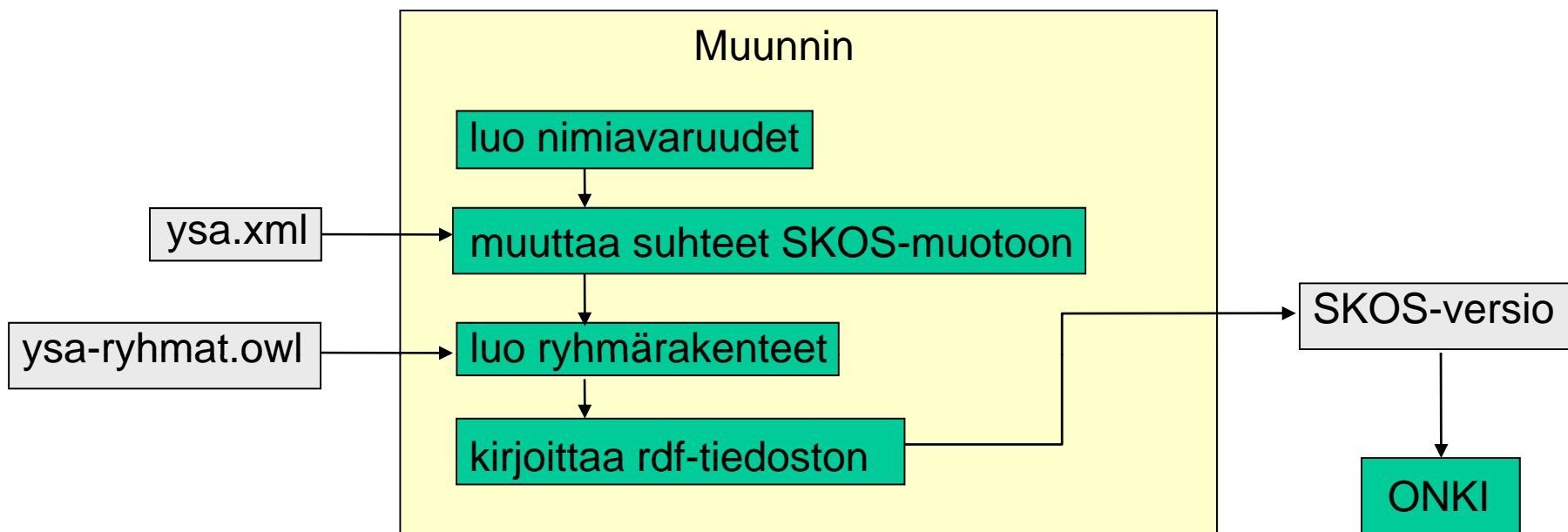
# Miten osaksi KOKOnaisuutta?



**Upload now!**



# Julkaisuputki: YSA → ONKI



```
<controlfield tag="001">98138</controlfield>
<datafield tag="072" ind1=" " ind2=" ">
  <subfield code="a">ysa67</subfield></datafield>
<datafield tag="150" ind1=" " ind2=" ">
  <subfield code="a">pistols</subfield></datafield>
<datafield tag="550" ind1=" " ind2=" ">
  <subfield code="w">g</subfield>
  <subfield code="a">shooting weapons</subfield>
</datafield>
<datafield tag="550" ind1=" " ind2=" ">
  <subfield code="a">revolvers</subfield></datafield>
```

```
<rdf:Description rdf:about="http://www.yso.fi/onto/ysa#Y98138">
  <skos:broader rdf:resource="http://www.yso.fi/onto/ysa#Y94639"/>
  <skos:related rdf:resource="http://www.yso.fi/onto/ysa#Y100758"/>
  <skos:prefLabel xml:lang="en">pistols</skos:prefLabel>
  <skos:inScheme rdf:resource="http://www.yso.fi/onto/ysa#ysa_juuri"/>
  <rdf:type rdf:resource="http://www.w3.org/2004/02/skos/core#Concept"/>
</rdf:Description>
```

**”Kansallisesti  
merkittävät  
sanastot  
saavat  
tukea!”**



# ONKI Living Lab v. 2008- - ulos norsunluutornista!



# ONKI Living Lab 2010

- > 10 000 käyttäjää kuukaudessa
- > 100 rekisteröitynyttä organisaatiota
- melko vakaa
- melko nopea (1-10 sekunnin vasteaikoja hauissa)
- käyttöliittymää ja rajapintoja kehitetty palautteen pohjalta
- ontologioita lisätään jatkuvasti
- palvelua kehitetään eteenpäin
- ilmainen





**Tervetuloa käymään!**



**Superprolen suositus?**

**Ryhdy ONKI-  
testikäyttäjäksi  
jo tänään!**

**[www.yso.fi](http://www.yso.fi)**





Käytiin #p31223.

Tuliko #p48097?

Joo, oikea  
#p48097++!



Aalto-yliopisto  
Teknillinen korkeakoulu

# Kiitos!

Kim Viljanen

Semanttisen laskennan tutkimusryhmä SeCo

Aalto-yliopisto

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