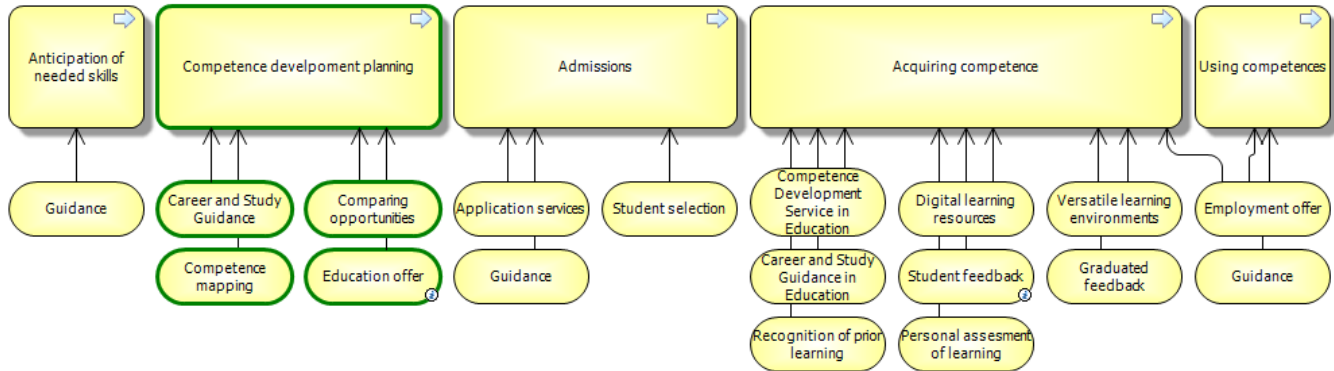


Desk research: Services in different EU-countries

This architecture model sums up the services that individual is using when developing competences in lifelong perspective. Circles are the generic services and in each EU-country there is different systems how these services are organized. Table under the picture is a summary what kind of different ways of organizing digital services there are.



For a list/table of similar projects, head here: [Similar projects](#)

Learner's path's services in different EU-countries

Service	Description	Finland	Netherlands	Germany	.EU
Guidance and mapping	Guidance and competence mapping services that help individuals to identify their competences and what competences they are missing	http://ohjaamot.fi/ohjausta-verkossa (online guidance) Ammatillitojien uraohjaus TE-toimistojen uraohjaus Tilaajavastuun osaamis- ja työllistymisratkaisu Studyinfo.fi - how well at the moment? • esiHOKS? / Compleap competence profile (Prospective student can measure his/her personal competences and skills and make plans regarding further development of his/her skills and competences) Osaan.fi Positiivinen CV Osaamisbotti Noodi kunkoululoppuu.fi (TAT) Osaan.fi Tiviittori	Studiekeuze123 Euroguidance.nl Employment Insurance Agency (info on UWV in English): The 'beroepenvinder' Tests provided by Leerwerkloketten Many specialized tools: GoGeo Studiewijzer The Competence Group ? Disadvantaged learners: SBB Werkverkenner	Potenzialanalyse • a mandatory test aimed at learners age 13-14 • Used nationwide, different states and cities have different methods and implementations • Measures social, personal and methodical competencies as well as work-oriented sets of skills • Basic information Methods / services: • http://portal.beruf-universum.de/ • https://www.profil-ac.de/ A test to find a career after school (VET + tertiary education): https://www.arbeitsagentur.de/bildung/was-passt-zu-mir	Skills mapping ESCO – European Classification of Skills /Competence; https://ec.europa.eu/esco/portal/home Guidance: https://www.euroguidance.eu/ Specific example, The European e-Competence Framework (e-CF): www.e-competences.eu (more (self)assessment frameworks exist, like Entrecamp) Recommendation for Key competences for lifelong Learning http://bit.ly/2GrSFnP

Education offer	Search engines to identify education and learning opportunities	Studyinfo.fi kunkoululoppuu.fi (TAT) noodi.me (Me-säätiö) Online opintotarjonta: ■ nettiperuskoulu www.otavanopisto.fi/nettiperuskoulu ■ nettilukio www.otavanopisto.fi/nettilukio ■ avoin ammattiopisto, http://www.avoimetammatillisetopinnot.fi ■ www.eamk.fi	http://www.leermogelijkheden.nl/ VET: MBO Raad  Overview at Leerwerkloketten: www.opleidingenwerk.nl/ English-taught study programs and courses: Study in Holland Dutch language courses: Study in Holland; learnndutch.org; amexpat.nl; Nt2 etc.	Info on the preparatory training for VET (under 25 year-olds): berufsvorbereitende Bildungsmaßnahmen Options in VET / berufliche Ausbildung: planet-beruf.de + Azubiwelt app Options in VET/ schulische Ausbildung: KURS-NET Options in VET / dual system: "duale Ausbildungsberufe" at bmwi.de Options in tertiary education: studiewahl.de and hochschulkompass.de Adult learning, up-skilling for career changers, courses etc.: KURS-NET	https://ec.europa.eu/ploteus/
Application services	Application management services where admission is understood as the whole process from applying to accepting a study place.	Studyinfo.fi (application management services and My Studyinfo.fi) and educational institutions • yhteishaku • jatkuva haku • joustava haku (uusi?) - kysyntälähtöinen - opiskelija ilmoittaa kiinnostuksesta? Compleap?	Enrollment for Higher Education Institutions: studielink.nl, also for numerus fixus studies	Three routes depending on e.g. restrictions on admissions i) uni-assist.de for international students and refugees ii) foundation for admission to higher education - admissions to many first cycle study programs and to all study programs with restricted intake. iii) directly at the university - application usually online but enrollment takes often place in person in admissions offices (Studiensekretariat)	
Student selection	Accepting the study place	My Studyinfo.fi -service (accepting study place and link to student financial aid application service at KELA)	Applying for a study grant: https://www.duo.nl/particulier/studiefinanciering-aanvragen/mbo-havo-of-universiteit.jsp	Higher education institutions decide on their student selection. Requirements may vary between institutions.	
Versatile learning environments	Learning environments to aid everyday teaching and learning	Open learning resources (Perusopetuksen wikiloikka, Muikkuverkko, many institute specific sites) Many institute specific learning environments and resources Edu.fi - official platform for teachers	Non-formal online: studytube.nl. Higher education: diverse initiatives by institutions. Many commercial providers. SURF's program "Education Innovation with IT" - ask them?	Bitkom's annual eLearning award "delinda" is granted for innovative learning technology solutions. See the award winners for some examples.	

Digital learning resources	Digital learning material	■ avoin perusopetuksen oppikirjasto ■ www.edustore.fi ■ museoliitto.fi/opimuseossa/museoiden-avoimet-sisallot ■ OPH vähälevikkiset oppimateriaalit Publishers (Otava, SanomaPro, edita, Alfapublishing etc), Digital publishers (Tabletkoulu),	The National Institute for Curriculum Development (SLO) helps schools to select teaching materials - ask them? + Many commercial providers	The Minister for Education and Science Anja Karlick (03/2018) has restructured the Ministry so that digitization is on every department's agenda now (Der DigitalPakt). Open education resources (OER): ■ FWU Medieninstitut der Länder (Schools) ■ Learning Lab der Universität Duisburg-Essen (University) ■ Bundesinstitut für Berufsbildung BIBB (VET) ■ Deutsches Institut für Erwachsenenbildung DIE (adult learning) Some examples from NRW: ■ "pro-digital schools" ■ digital learning material in schools *) Study by Bertelmann's Stiftung Monitor Digitale Bildung (2016-2017): In general, there is rather skeptical attitude to digitalisation of education&learning in Germany.	
Student feedback	Feedback on progression of studies and it's support	Arvo - national service for feedback	The NSE survey by Studiekeuze123	HEIs are obliged to collect feedback from students every year institution specific surveys	
Graduated feedback	Feedback given after graduation to evaluate studies	Arvo - national service for feedback	not known, probably institution specific?	Institution specific graduate surveys + a nation wide project KOAB + a longitudinal survey AP2017	
Competence development in education	Tools to identify and develop competencies during education	eHOKS - service for storing, maintaining and utilizing the learner's data related to personal development planning. Developed by Edufi. Planned first deployment January 2019. More info will be updated in Edufi wiki. www.workseed.fi https://tawasta.fi/ratkaisut/futural-skillshttps://tawasta.fi/ratkaisut/futural-skills	Toolkit for Volunteering organisations by Movisie http://bit.ly/2p9aNvc Movisie collaborates with European Volunteer Center.		
Recognition of prior learning		Osaan.fi Digital open badges ■ osaamismerkki.meke.wikispaces.net/oppimisprosessi ■ Open merkit ■ www.oppiminenonline.com/osaamismerkinhakemuslinkit Partioiden osaamismerkkit	Initiative started around issuing Open Badges for modules (sesters) within HEI. Initiative started around non-formal education, issuing (smaller) badges based upon VET learning outcomes	Federal information portal Federal act on recognition of prior learning (2014) covers VET and regulated professions.	
Career and study guidance in Education	Digital services that support guidance during education	http://ohjaamot.fi/ohjausta-verkossa (online guidance) (Opintojen aikana?) www.toimintakykyarvio.fi ammatinvalinta.fi ammattinetti.fi ammattiosaja.fi Korkeakoulujen urapalvelut?	"The career guidance system is decentralized and involves both public and private providers." Euroguidance ... <i>elaborate on this</i> Dutch association for career professionals Noloc	Personal career guidance by Bundesagentur für Arbeit in local info points	
Personal assessment of learning	Self-evaluation etc. tools	Qridi Skillzzup	Institution specific? e.g self-evaluation of PhD students (Utrecht University) or Career Services's on-line tools		

Employment offer	Open job positions	Työmarkkinatori Private systems			
Authentication	Identification methods	Haka-federation (for administrators and HEI students), Suomi.fi (strong authentication (eIDAS) for learners and administrators), studyinfo-authentication, google-authentication	SURFcontext (single signon with student account for many educational services,); Digid (National governmental authentication system);		eIDAS / eID
Management of Learner IDs	Way to manage learner's unique person identification codes.	National learner ID register *Register consist unique person OID codes for all the learners *every learner can be identified by using the OID code	Students in the Netherlands have a national student-ID (onderwijsnummer), for Dutch citizens this is normally the same as their social security number	Institution specific? See "Hochschulrechenzentrum" of each institution	
e- Authorization	Reliable verification of a person's right to specific services	Suomi.fi * Suomi.fi e-Authorizations is a service for reliable verification of a person's or organisation's authorization and right to use digital services on behalf of another person or organisation regardless of time or place.	na	German eID	
"Student data warehouse"	National register for study rights, study attainment and study achievements	KOSKI (National register for study rights, study attainment and study achievements) *	BRON National register of student admissions from primary, secondary and tertiary education; and study results (@DUO)		
Consent Management		Not available	na		
Employer feedback and needs	To be filled in by CSC	Arvo - national service for feedback	not known, probably institution specific?		
Education Statistics	Collects official education statistics	Vipunen.fi (Education statistics Finland), Statistics Finland	kept by the national agency for statistics: http://www.cbs.nl/nl-nl/maatschappij/onderwijs		Eurostat http://bit.ly/2cZY0p8
Learning Analytics	Hanni Muukkonen saisiko teiltä tähän sisältöjä?				The LACE-project: http://www.laceproject.eu/ Connecting communities working with learning analytics, create and curate knowledge for evidence, develop and investigate new tools for Learning analytics SHEILA-project: http://sheilaproject.eu/2017/04/18/the-state-of-learning-analytics-in-europe-executive-summary/ Ethical use of learning analytics, guidelines for higher education institutions. Open Skills Matchmaker: http://openskimr.eu/
Labour market needs gathering (foresight /anticipation)	Use of labour market and skills information to predict and develop policy responses to future skills needs.	Done in various institutions (eg. Edufi) The national education authorities cooperate with the enterprises as well as employee and employer organisations to monitor and anticipate the developments in skills needs in the labour market. Key actors in this work are the National Education and Training Committees, tripartite bodies established for each occupational field.	Diverse commercial initiatives The Research Centre for Education and the Labour Market (ROA) OECD Skills Strategy Diagnostic Report: The Netherlands (2017)		Skills Panorama: http://skillspanorama.cedefop.europa.eu/en labour market Information (LMI) toolkit: http://www.cedefop.europa.eu/en/toolkits/resources-guidance/toolkit
Work placement	Official platforms for finding work placements	http://www.te-palvelut.fi	A website that publishes all offerings on work placements for VET-students https://www.stagemarkt.nl Employment Insurance Agency's (UWV) listing werk.nl - incl. links to other job platforms, too.		Free information service on European work, study, travel and volunteering opportunities: https://eurodesk.eu/

Credential issuing			Initiative started around issuing Open Badges for modules (sesters) within HEI. Initiative started around non-formal education, issuing (smaller) badges based upon VET learning outcomes		

Services on competence mapping and comparing educational opportunities and other such projects close to Compleap

Service	Description	Data they use	Country	Target group
Positive CV	Children evaluate their competences to build a "positive CV" - CV that describes what they are good at	Generated in the service	Finland	Children / youth without work experience
HeadAi's artificial intelligence / Microcompetencies	An artificial intelligence that predicts what sort of expertise is needed in the future. The artificial intelligence understands natural language and uses open data			
Foredata /foreammatti				
Me-säätiö / Noodi www.noodi.me				
Töissä.fi				
Valmentavasta valmiiksi -hanke, SIMHE-hanke				