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Country Digitization & Acceleration Plan - Germany CSR and NetAcad

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Agenda	
Commitment & VSEM	
Competence cycle & 3 Pillars	
Strategy: Bringing the nation back in	
Partner ecosystem & team	

INTRODUCTION





Research & Education



Provide digital competencies for non-IT professionals in small and medium sized companies



expand the Networking Academy, increase the number of graduates in Germany from currently 35,000 a year to 80,000 in three years

"Deutschland Digital"

Economic Clusters

(\$)

\$

investment in start-ups and venture funds in Germany with priority areas such as security, cloud, loT

Research initiative translating Germany privacy and data protection regulations into a software architecture for cloud services -"Security Center of Excellence"

> CISCO

GERMANY

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Entrepreneurship & Innovation



al a

Smart Cities & Regions

openBerlin innovation center, opened in 2015, to bring together customers, startups, partners and research institutions to work on solutions

Innovation workshops, focussing on mid-sized companies, work on digital solutions and business models

Infrastructure



Cisco is looking to partner with the public sector and contribute to large-scale transformation projects

Cisco confidential.

CDA NetAcad Germany CSR Commitment

- Support the national digital agenda
- Train the young generation and the workforce to be IoE economy ready
- Improve the competitiveness of the German industry and service sector
- Fertilizing a start-up culture and entrepreneurship

Extended CDA Germany NetAcad VSEM

Combining country innovation with social integration = Social Impact × Innovative people applying the power of the network through connected collaboration create social and business impact.

CDA Plan education for profit Awareness raising, **Education for** employees Integrate key Cisco technologies into the NetSpace platform Internal trainings for Easy to access profiling employees + further training for unemployed Active labor market policy Social networks campaign and further education

3 years FY16 to FY19

Train the young generation, the existing workforce and refugees to be IoE economy ready Bringing together technology, people, partnerships, and sustainable execution

NetAcad for Refugees

Building on language

variety of the global

learning platform

Active labor market policy

and further education

Partner ecosystem with

established further training

institutions and NGOs

- Massive localization and sector specific learning content
- Evolve Networking Academy's national partner sustainability model and program
- · Stakeholder relations and multi-platform partner development

Networking Academy: % Growth, Student Satisfaction, Instructor Satisfaction, % Growth Cert Ready Individuals

YoY Perception Ratings, YoY Industry Rankings, Web & Social Media Interaction

NetAcad traditional

Build on installed base of

dedicated NetAcad partners

and instructors

Growing on the edges: smart

grid, digitized mechanical

engineering, automation

Learning innovation,

hackathons, eCompetence

Framework

% Portfolio w/Platform support, # localized offerings and pipeline, offerings time to market

Country Stakeholder value perception,, % Discrete student growth

social media and

marketing

IoE skills demand

awareness raising

(skills test)

% individuals building capabilities



Raus aus dem goldenen Käfig!

Beispiel Hamburg



Internationaler Bund IT-Akademie Hamburg			
G18 Hamburg			
Berufliche Schule City Nord BS28			
Berufliche Schule Farmsen			
Hamburg University of Technology (TUHH)			
Stadtteilschule Wilhelmsburg			

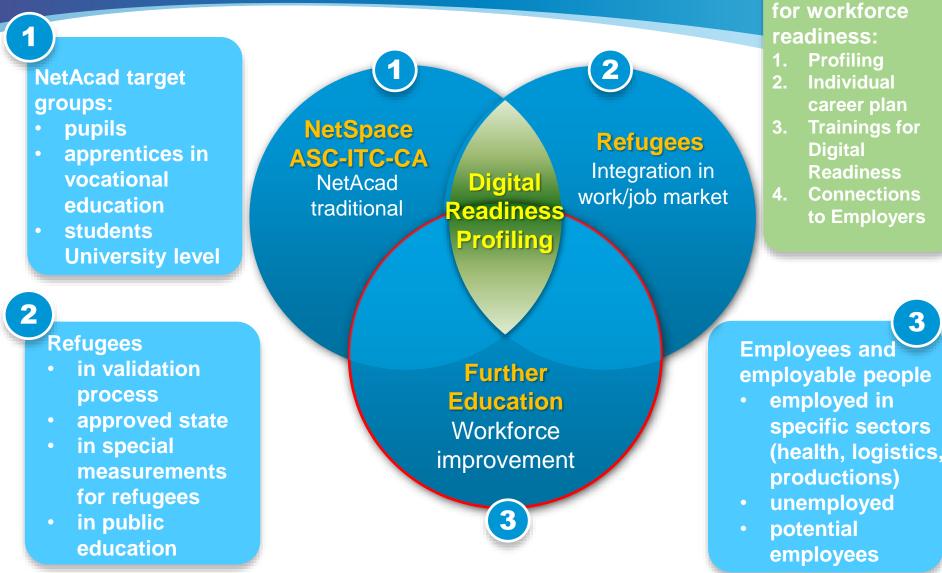
Unsere bestehenden Kontakte: IT-Berufe, Informatik Studiengänge und technische Ausbildungsgänge....

Wichtig für den Erfolg der CDA Strategie:

- Wie werden wir relevant für die nicht-IT Berufsausbildungen?
- Wie erreichen wir Flüchtlinge mit einer IT-Vorbildung oder Interesse an IT?

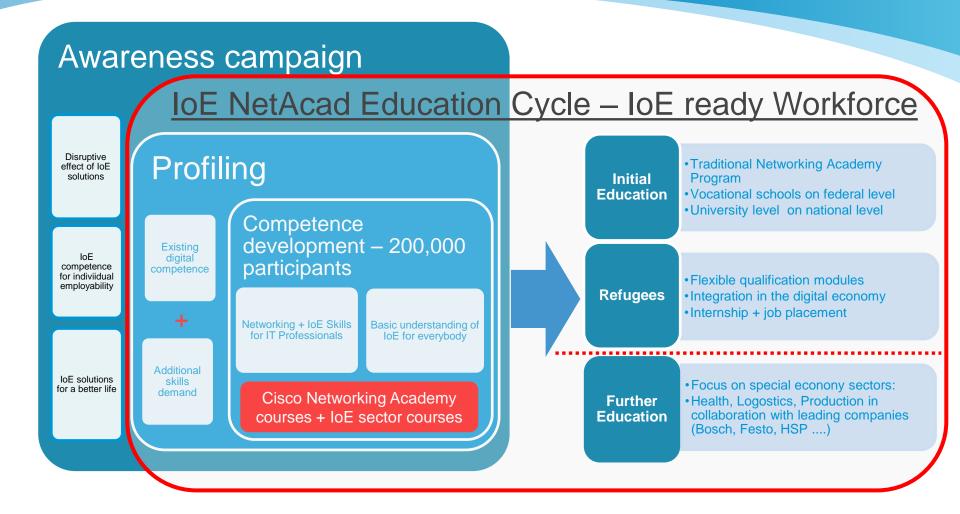
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Integrated Concept for Combined Approaches



Structure trail

Competence Cycle and Employability -Target Groups





Federal and National – working on different levels for one goal

State level strategy:

- Secondary schools
- Vocational Schools (initial training in Dual System)



- Universities
- Military (Bundeswehr)
- further education for all people in working age: employed, unemployed, employable people, refugees

Target: Digital readiness is the education level for employability ...

Institution Building on National Level



Investment in NetAcad institution building on national level to cover the Academy life cycle

- Acquisition
- Onboarding
- Instructor enablement
- Sustainable structures

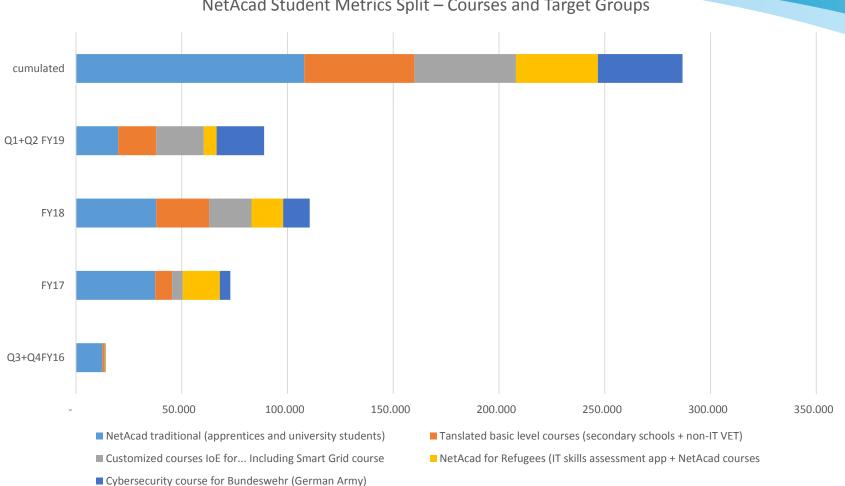
With CDA resources we build national institutions

- Virtual acquisition team
- Onboarding support (bringing them home)
- ASC infrastructure
- Network of instructor trainers with a nation wide range (IT-Bildungsnetz and others)
- Multi-platform strategy with industry partners and further education partners
- Stakeholder relations with labor administration and social partners

NetAcad Students Metrics Overview

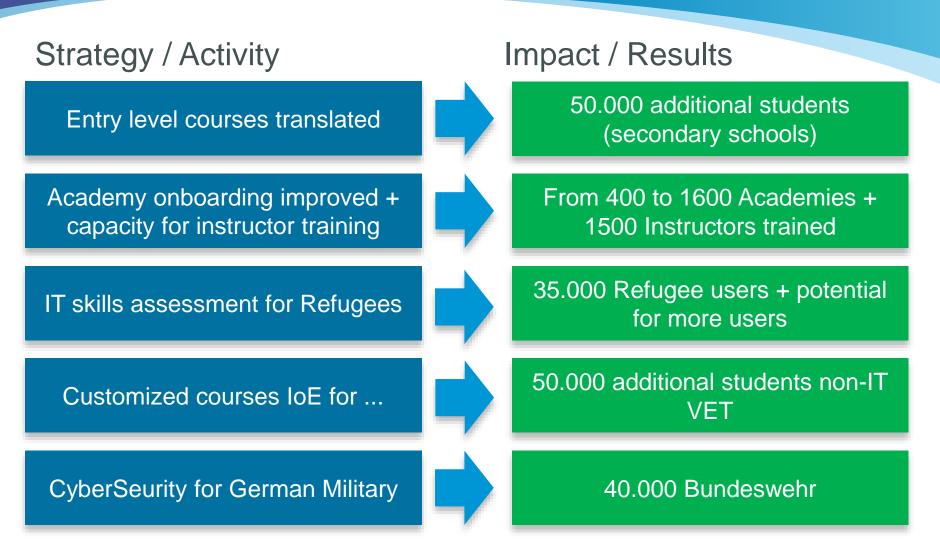
NetAcad target group	Q3+Q4FY16	FY17	FY18	Q1+Q2 FY19	cumulated
NetAcad traditional (apprentices and university students)	12.500	37.500	38.000	20.000	108.000
Tanslated basic level courses (secondary schools + non-IT VET)	1.000	8.000	25.000	18.000	52.000
Customized courses IoE for Including Smart Grid course	500	5.000	20.000	22.500	48.000
NetAcad for Refugees (IT skills assessment app + NetAcad	050	17 500	15 000	6.000	20 750
courses)	250	17.500	15.000	6.000	38.750
Cybersecurity course for Bundeswehr (German Army)	-	5.000	12.500	22.500	40.000
total	14.250	73.000	110.500	89.000	286.750

NetAcad Students Metrics Split

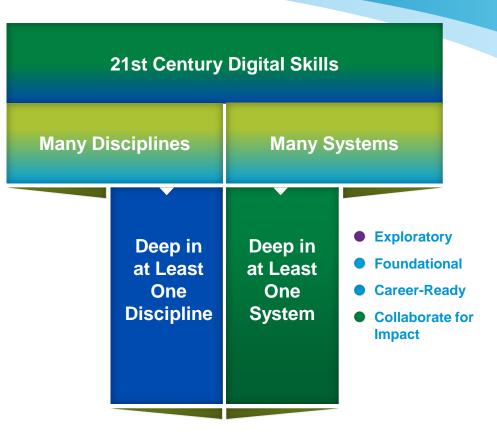


NetAcad Student Metrics Split – Courses and Target Groups

How Are We Getting There?



The Networking Academy Learning Portfolio Approach



Cisco Networking Academy Learning Portfolio

Exploratory Consider	Skills to			
Introduction to IoTIntroduction to CybersecurityGet Connected	Tutorials: Packet Tracer Know How Linux Unhatched 	Series:Be Your Own BossCareer & Technical Webinars	Solve Real-World Problems	
Foundational Prepare for	or a Technology Career		Collaborate for	
IT Essentials NDG Linux Essentials Cybersecurity Essentials* Networking Essentials*	CPA: Programming Essentials in C++ Mobility Fundamentals Entrepreneurship	IoT Fundamentals: Connecting Things* Big Data and Analytics* Hackathon Playbook*	Impact Synthesize your skills • Packet Tracer	
Career-Ready Step into	Your Technology Career		Cisco NetRiders Competition	
 CCNA Routing & Switching: Introduction to Networks Routing & Switching Essentials Scaling Networks Connecting Networks 	CCNP Routing & Switching: • ROUTE • SWITCH • TSHOOT	CCNA Security CCNA Cyber Ops**	InternshipsRegional IT Competitions	
		NDG Linux: • Linux I • Linux II	Regional Hackathons	

* Available within 6 months **Available second half 2017

Entry Level Courses Translated

Situation and Intervention

- NetAcad team has developed entry level (exploratory) courses (between 15h and 20h) – basic competence
 - Get connected
 - Introduction to IoT
 - Introduction to Cybersecurity
 - Network Fundamentals
- Translation is the prerequisite for implementation at schools in Germany – CDA investment in year 1
- Using the newly available courses to attract new Academies + instructors
- Connection with improved onboarding process module

Results

- Short entry level courses open the Academy program for secondary schools. A completely new market segment comes in reach
- Translation process led by NetAcad product team is on track
- Release dates:
 - Get Connected: June 2016
 - Introduction to the IoE: July 2016
 - Introduction to Cybersecurity: October 2016
 - Network Fundamentals: Q3 FY17

Q3+Q4FY16	FY17	FY18	Q1+Q2 FY19	cumulated
1.000	8.000	25.000	18.000	52.000

Academy Onboarding Improved (Institution Building)

Investment and Intervention

The growth of student numbers depends on onboarding new institutions + training offers for new instructors

- Virtual acquisition team + onboarding support (bringing them home) + support infrastructure
- Forming a network of instructor trainers with a nation wide impact
- Multi-platform strategy with industry partners and further education institutions
- Stakeholder relations with Ministries, labour administration + social partners

Results

- From 1 to 4: Increasing the number of Academies from 400 to 1,600
- Instructor training for 1,500 non-IT teachers for new courses (basic level)
- Access to the basic level online courses on at least 3 partner learning platforms (Academy Cube and similar – State platforms?)
- Stakeholder relations to Ministries, Federal Labour Agency, IT Summit participation, BIBB and social partners (BDI/BDA, unions)

IT Skills Assessment + Competences for Refugees

Situation and Intervention

- Development of a skills assessment tool that will be optimized for smart phone users in language variety
 - Basic IT competence
 - Advanced basic IT competence
 - Potential for IT specialists
- Recommendations for test takers regarding further competence development and direct access to NetAcad basic courses
- Promotion campaign with BA and other stakeholders including social media campaign

Results

- Improved job profiling for 35,000 refugee job seekers
- Competence development for 35,000 refugees on three different level: Basic IT skills, advanced basic IT skills, IT specialists

IT Competent Refugees



NetAcad for Refugees Project Status

- Federal Labour Agency contacts on board level and on working level (integration points in Northrhine-Westfalia)
- Development process for IT-skills assessment app with partner Fastlane started in May 2016 (70k investment) – planned launch: September 2016
- NGO partnerships (Refugees on Rails, ReDI School, Caritas et al.)
- Refugee integration classes at all vocational schools in Germany – number of pupils growing dramatically
- Pilot groups at existing NetAcads (Muelheim, Lingen, Hamburg, Hannover, Berlin) – tutor model and app testing



Customized courses IoE for ...

Situation / Activity

- The existing Introduction to the Internet of Everything NetAcad course contains generic learning material regarding the digitization of economy and society
- These competences prepare employees for future jobs. Positive impact on employability, participation and integration
- Making IoE content more relevant we plan to produce derivates of the IoE course for (examples) – FY17
 - Smart Grid (available since July 2015)
 - Connected production
 - Connetced health services
 - Connected logistics

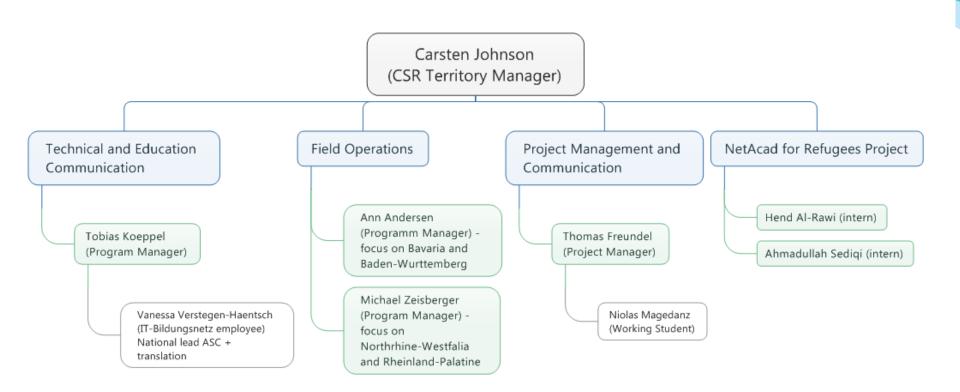
Results

- Stratregic partnership with commercial CDA Germany Education offers (Norbert Buening)
- Smart Grid Essentials course as a starting point – update!
- IoE derivates courses co-developed and promoted with industry partners – Festo? Telekom? WorldSkills-Germany?
- FY17 as development and test phase
- Roll-out will start in FY18

Q3+Q4FY	16 FY17	FY18	Q1+Q2 FY19	cumulated
500	5.000	20.000	22.500	48.000

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Das Networking Academy Team



Dabei brauchen wir Eure Unterstützung:

- Macht Euch mit den neuen Kursen vertraut! Evtl. Spezialisierung?
- Stimmt euch mit den neuen NetAcad Kollegen in den Regionen ab
- Nutzt einfache Zugänge, um mehr Kollegen in die Arbeit einzubeziehen: Alle Einstiegskurse können auch ohne Instruktorentraining unterrichtet werden
- Nutzt die einfachen Zugänge f
 ür die Lernenden aus dem non-IT Bereich, um Euch zu entlasten
- Bringt die neuen Möglichkeiten in die Ministerien, die Fachkonferenzen an Schulen bzw. die Gremien der Hochschulen ein
- NetAcad Roadshow Angebote f
 ür neue Academies in Eurer Region Ihr sagt uns, wo wir hinkommen sollen! Mein Wunsch: Mindestens 1 NetAcad Roadshow pro ASC, besser 2

Thank you.

