

MATΦ

Универзитет у Београду
Математички факултет

13.05.2023.

asw:



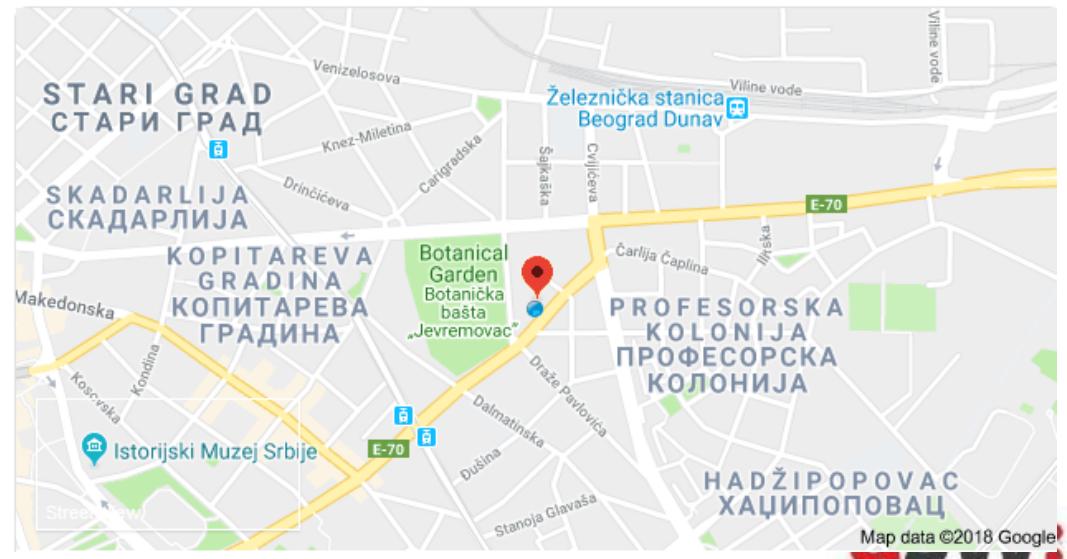
ASW Inženjering d.o.o.

Beograd
13.05.2023.

O kompaniji ASW Inženjering

KO SMO, ODAKLE SMO I GDE SE NALAZIMO?

- Domaća softverska kompanija osnovana u Sarajevu 1990. godine
- Sedište: Beograd
- Lokacije: Srbija / Slovenija / Bosna i Hercegovina



Map data ©2018 Google

O kompaniji ASW Inženjering

ŠTA RADIMO ?

- Projektujemo i proizvodimo rešenja
- Razvijamo, implementiramo i testiramo isključivo svoje proizvode i softverska rešenja
- Pružamo konsultantske usluge
- Podržavamo naša rešenja putem korisničke podrške



asw:

Čime se ponosimo? - Našim zaposlenima! (60+ inženjera)



asw:

Čime se ponosimo? - Našim proizvodima i rešenjima



asw:maximus

asw:

Čime se ponosimo? - Našim klijentima i partnerima

ORACLE

MicroStrategy



HUAWEI



***supernova**



VODOVOD I KANALIZACIJA D.O.O.
PODGORICA



Swisslion таково

mona



Dr.Max+



m:tel

imate prijatelje!

CENTROSINERGIJA



O kompaniji ASW Inženjering

ŠTA JE NAŠ CILJ ?

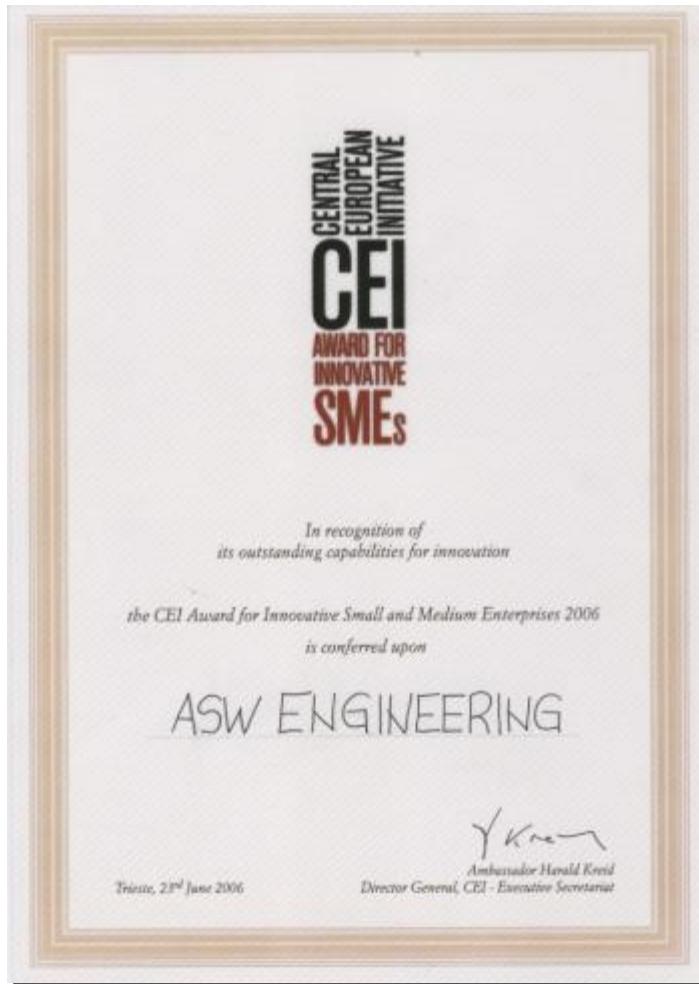
- Zadovoljni klijenti
- Zadovoljni zaposleni
- Permanentan rast (širenje u regiji i EU)
- Praćenje svetskih trendova
- Širenje spektra svojih proizvoda i rešenja



asw:

O kompaniji ASW Inženjering

EU - CEI Award 2006
asw:sapiens



Najbolje iz Srbije 2010
asw:dominus



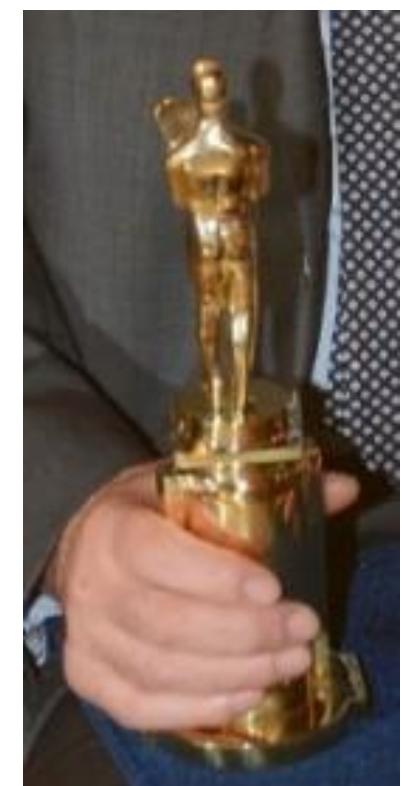
INFOFEST 2010
asw:dominus



INFOFEST 2012
asw:dominus



Beogradski Pobednik 2015.

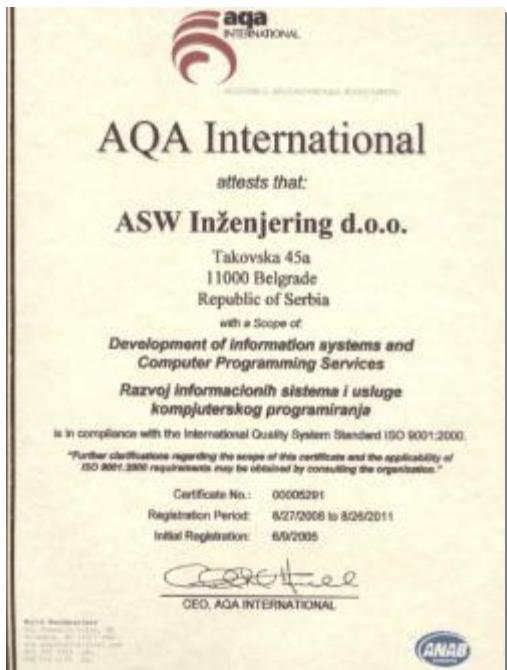


asw:

O kompaniji ASW Inženjering



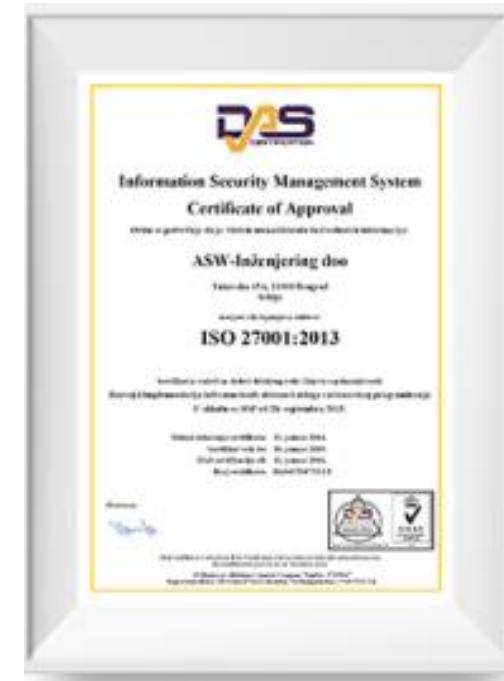
- ISO 9001:2008



- ISO 20000-1:2011

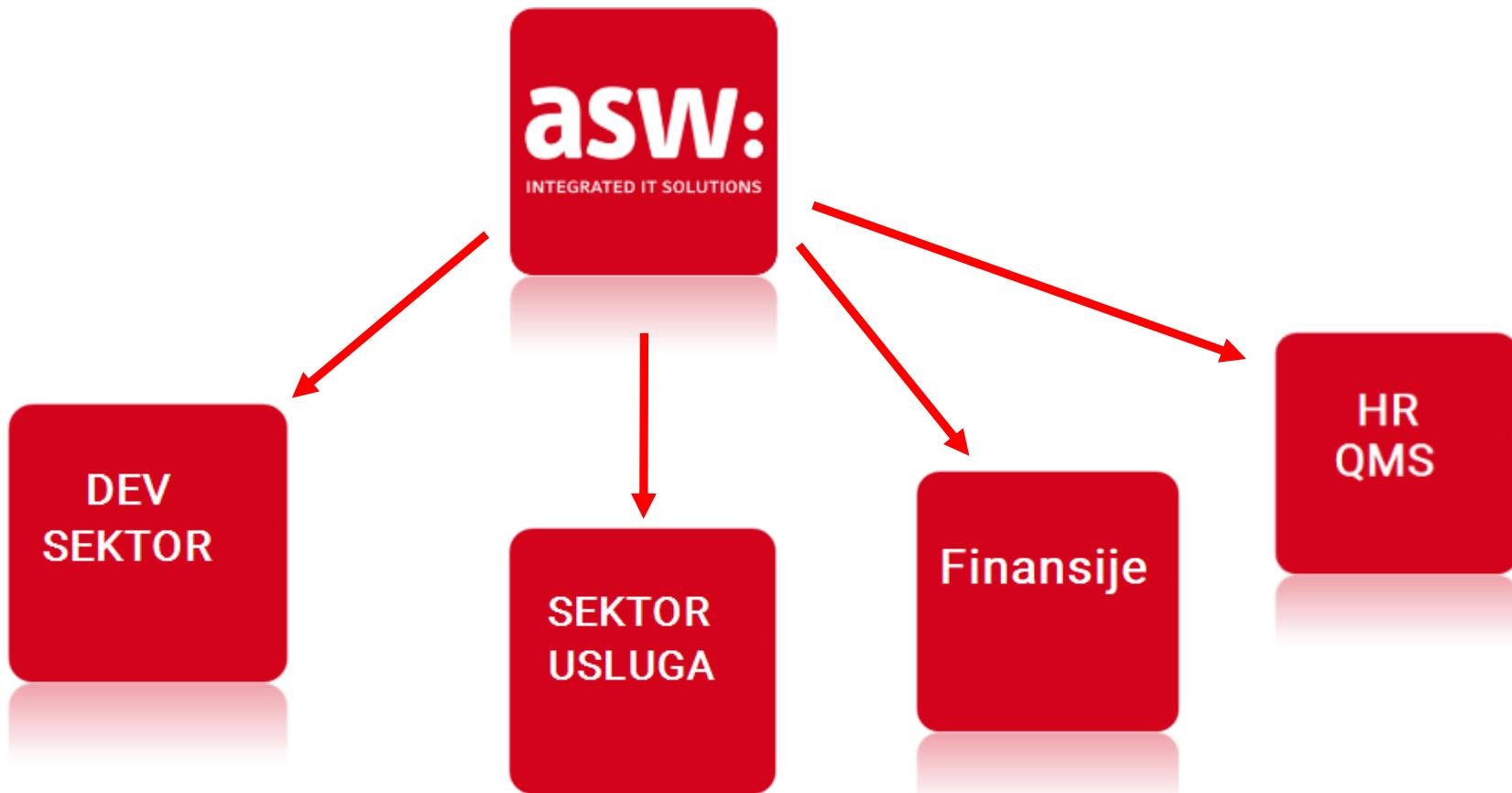


- ISO 27000

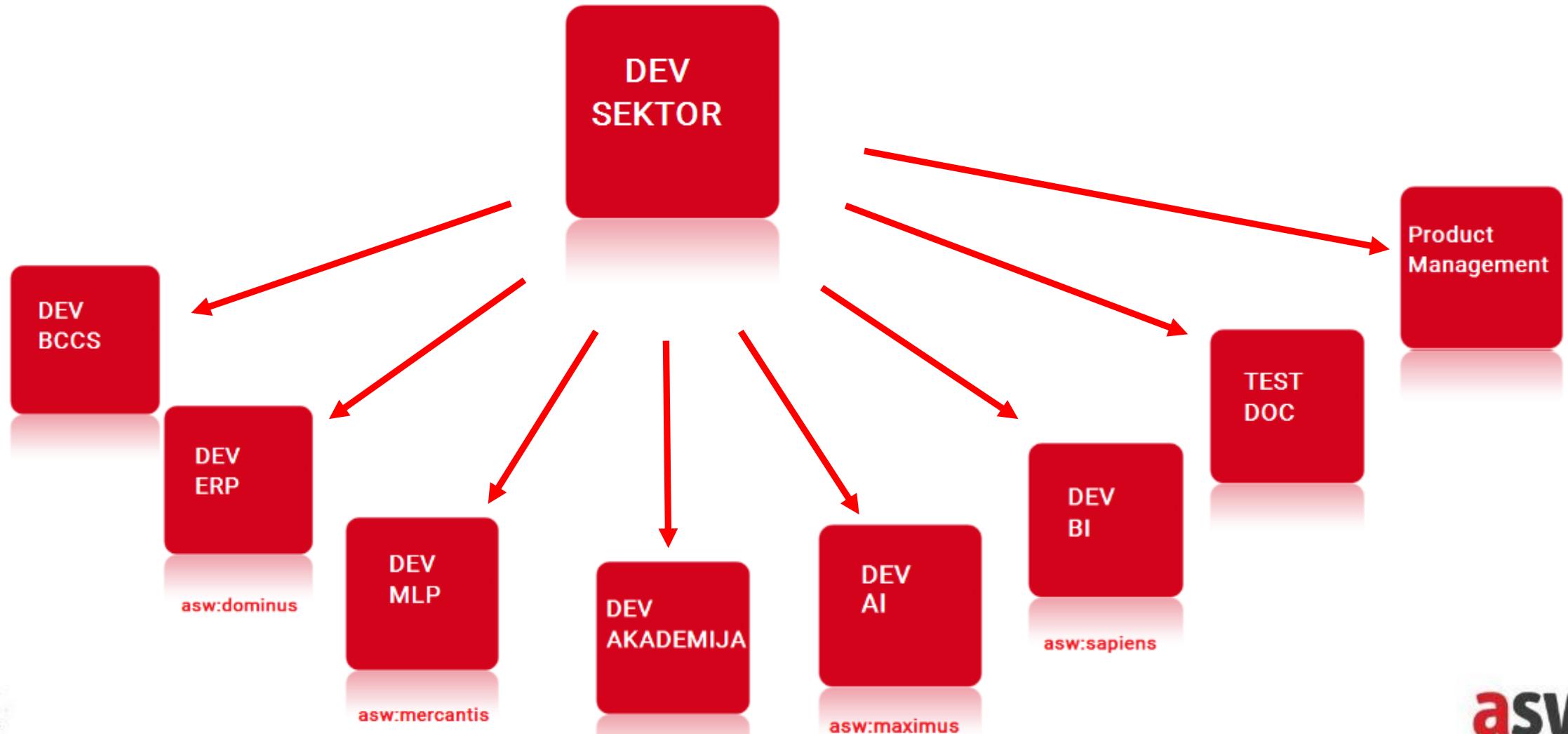


asw:

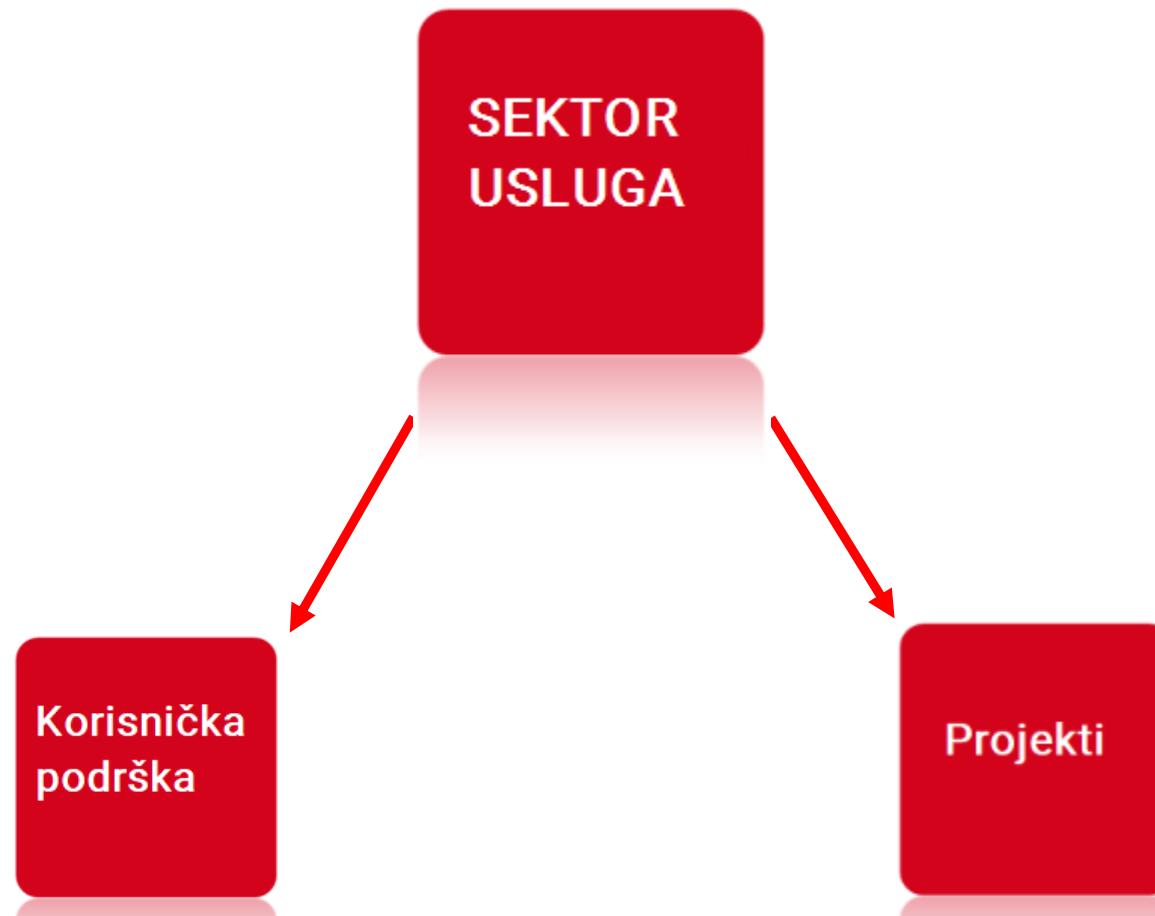
Organizaciona struktura ASW-a



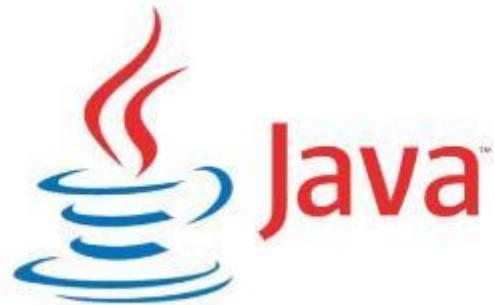
Organizaciona struktura ASW-a



Organizaciona struktura ASW-a



Tehnologije



PARTNER

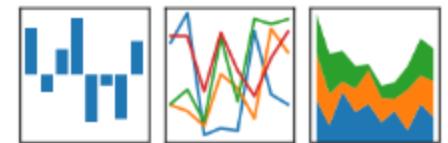


PostgreSQL



pandas

$$y_{it} = \beta' x_{it} + \mu_i + \epsilon_{it}$$



TensorFlow



Python

MicroStrategy®
The Power of Intelligent E-Business™



Hvala na pažnji!
Pitanja?



DataArt

DataArt

Global Software Engineering Firm



26
years in operation

6000+
specialists

35+
locations

>85%
retention

>46%
senior specialists

30%
women

DataArt in Serbia



Since March 2022

- Acquired Belgrade-based Software-Nation company
- May 2023: **2 offices** (Belgrade and Novi Sad) and remote work opportunity, **350 specialists** work for DataArt in Serbia
- Here are: relocates from Ukraine, Russia, Armenia, and Georgia, local market hires



Team Satisfaction Survey



94%

of our team members would
recommend DataArt as an
employer to their friends

93%

of our team members would
spend 2+ more years of
their career with DataArt

90%

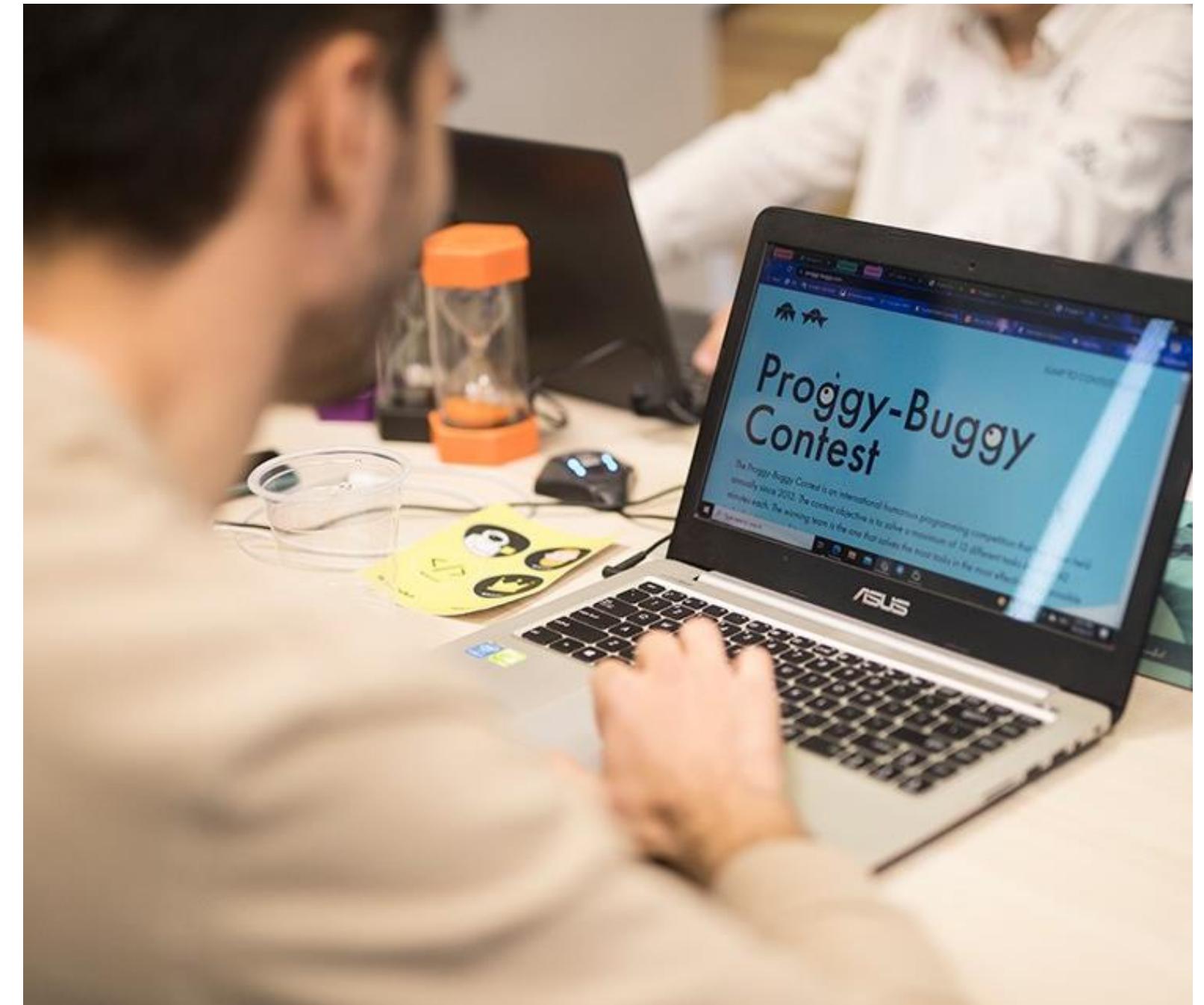
of our team members are
satisfied with their total deal
at DataArt

Proggy-Buggy



Since 2013. Founded in Dnipro, Ukraine

- International programming Olympiade, ACM ICPC rules, but fun tasks and
- 26+ countries, over 7,500 participants
- No need out of this world knowledge – just erudition and programming skills in any language



2023 Proggy-Buggy. May 25



13 tasks. 42 minutes to solve them all

- 2000+ participants worldwide
- 4 categories: pupils, amateurs, professionals, superheroes
- The winner in each category is a team or an individual that solves the most problems in the most effective way in the shortest time (there are even tasks that have no solution)
- In each category there will be a global winner. And for offline events there will be local winners



2023 Proggy-Buggy. May 25



- The precondition for the participation: the students should be registered and have their account created no later than May 21.
- Here's [Registration link](#) and [Link for creating the account](#)
- Join the tournament **offline at PMF on May 25 at 5 pm**. You'll need a computer and stable network connection.

Good luck!



Sofya Dorozhanskaya



- .NET Developer at DataArt
- Leetcode enthusiast
- DataArt Internship graduate



Task I



Problem E-Counting-out magic

Counting-out magic

Time limit: 1 s

Memory limit: 256 M

Proggy and Buggy play a counting-out game from 1 to N - to determine whose turn is to save the World: Proggy-Buggy-Proggy-Buggy-Proggy-... . Proggy is always number 1. This is on whom the count ends is "out" to save the world. In order for the result to be not so obvious, they point twice at each K-th count: Proggy-Proggy or Buggy-Buggy.

For example, if N=9, K=3 the counting goes like this:

Proggy	Buggy	Proggy	Proggy	Buggy	Proggy	Proggy	Buggy	Proggy
1	2	3	4	5	6	7	8	9

If N is big it may be too late to save. A computer program would count swiftly, of course. Proggy and Buggy are great magicians but when it comes to programming they are stuck. Help and save the World!

Input format

The first line contains an integer T ($1 \leq T \leq 100$) - the number of tests. Each of the next T lines contains two integers N and K ($1 \leq N \leq 10^9$, $1 \leq K \leq 10^9$).

Output format

Output T lines, each containing one word: "Proggy" or "Buggy" depending on who is "out" (without quotes).

Examples

Input	Output
2	Proggy
9 3	Buggy
6 2	

Result I



```
import java.util.Scanner;
public class ProgyBuggy {
    public static void main(String[] args){
        long start = System.nanoTime();
        Scanner sc = new Scanner(System.in);
        int number = 0;
        int i = 1;
        int step = 1;
        String winner = "Proggy";
        String p = "";
        String notWinner = "Buggy";
        try{
            System.out.println("Insert number:");
            number = sc.nextInt();
            System.out.println("Insert step");
            step = sc.nextInt();
        }catch (Exception ex){
            System.out.println("Please enter valid number");
            return;
        }
        while(i< number){
            if(i%step!=0){
                p=winner;
                winner = notWinner;
                notWinner = p;
            }
            i++;
        }
        System.out.println(winner);
        long end = System.nanoTime();
        long execution = end - start;
        System.out.println("Execution time: " + execution + " nanoseconds");
    }
}
```

Task II



Problem B-Cigam LAIOTCAF

Cigam LAIOTCAF

Time limit: 1 s

Memory limit: 256 M

In the modern world, every child knows that $N!$ - this is not an exclamation, this is $N \cdot (N-1)!$ (yes, children! do not shout! of course there should be $N > 0$ and $0! = 1$). In the world of Magic, the inverse function $N!^{-1}$ is more popular. Proggy and Buggy are great magicians but when it comes to reverse functions, this is where they get stuck. Can you help them?

Input format

Input one integer M ($1 \leq M \leq 10^9$).

Output format

Output one integer N , such that $M = N!$. If such N does not exist, output 0.

Examples

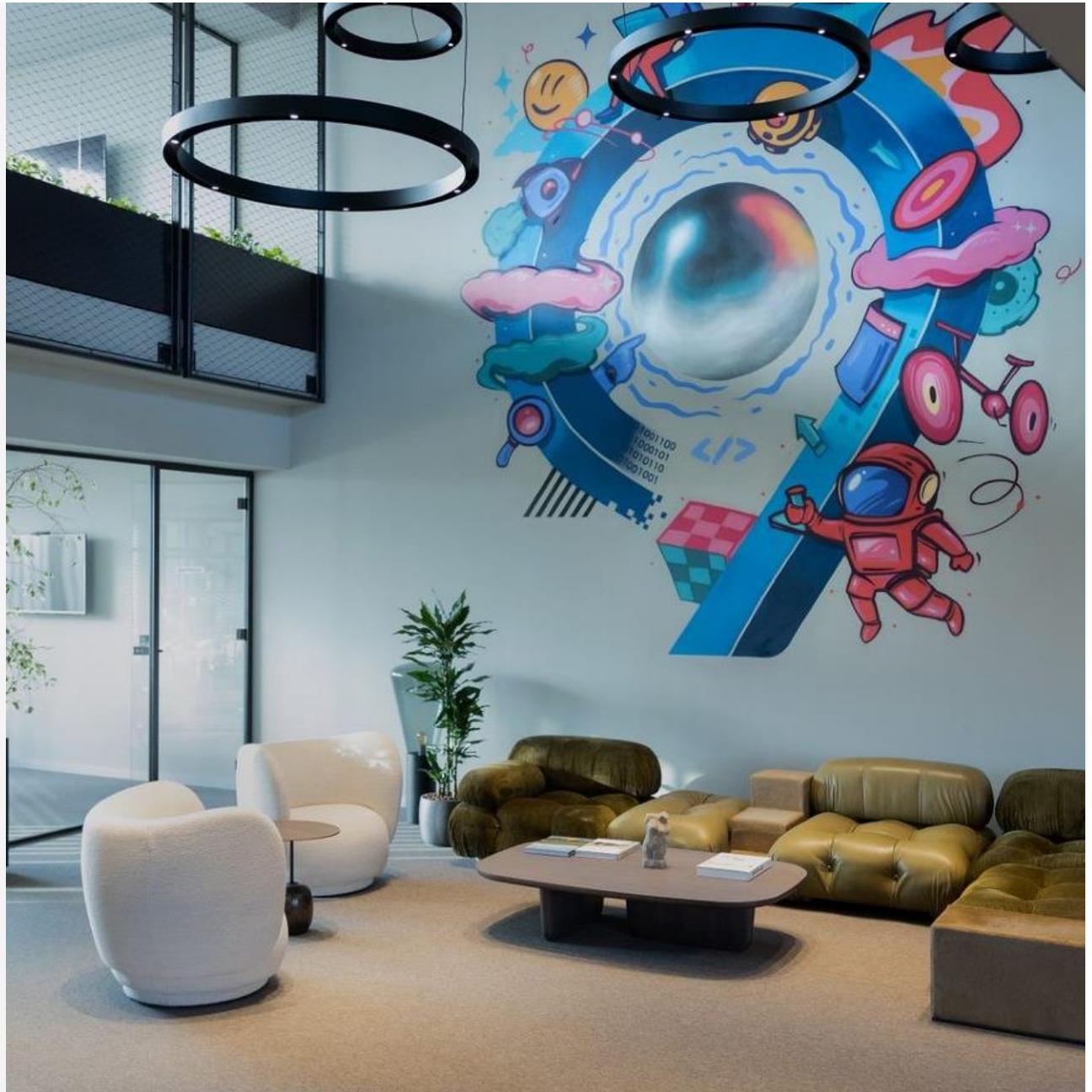
Input	Output
24	4
25	0

Result II



```
import java.util.Scanner;
public class progybugy2 {

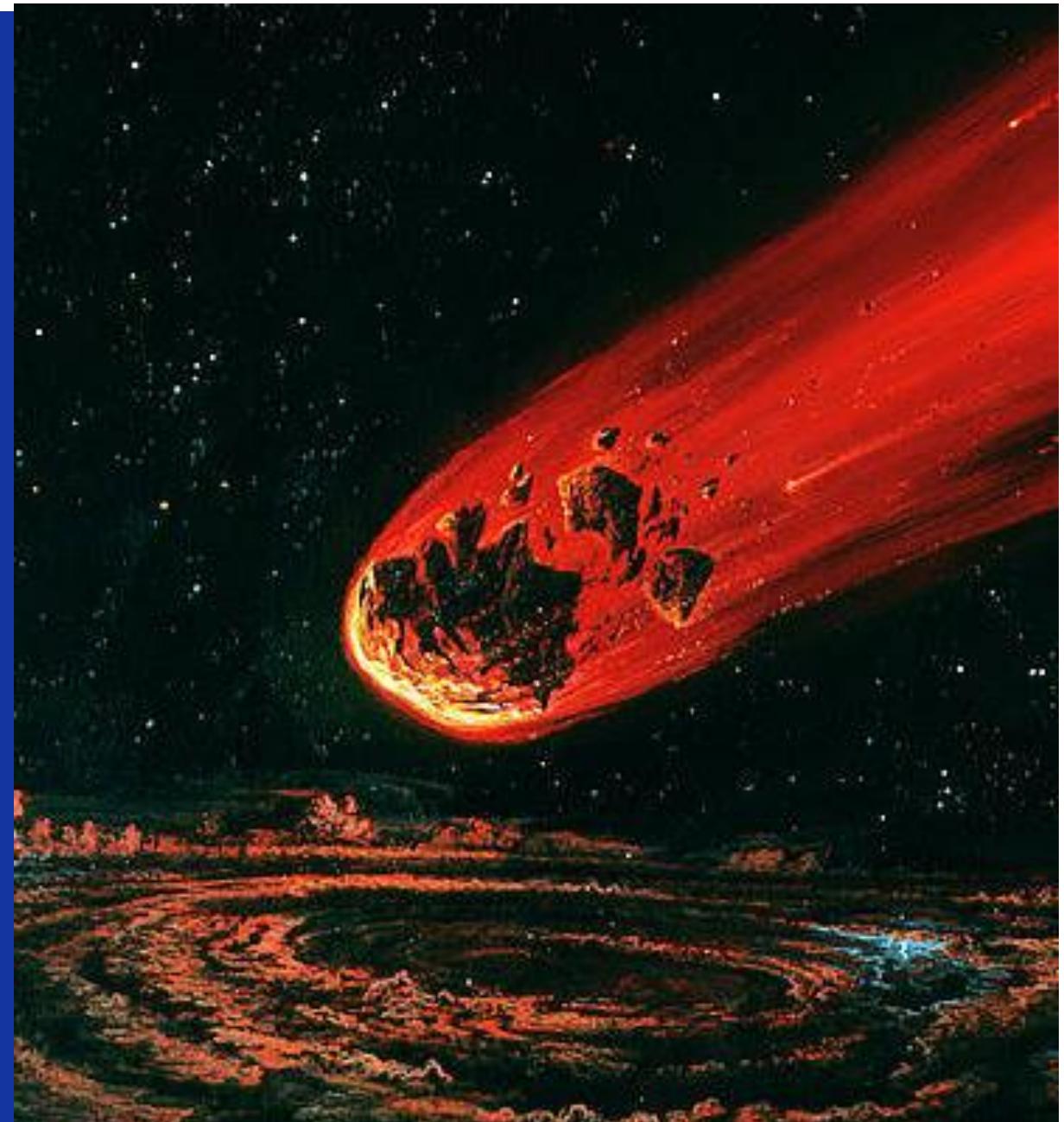
    public static void main(String[] args){
        long start = System.nanoTime();
        Scanner sc = new Scanner(System.in);
        int number = 0;
        int i = 0;
        int fakt = 1;
        try{
            number = sc.nextInt();
        }catch (Exception ex){
            System.out.println("Please enter valid number");
            return;
        }
        if (number<0){
            System.out.println("Please enter number > 0");
            return;
        } else if (number == 0) {
            System.out.println(fakt);
            return;
        }
        while (fakt < number){
            i++;
            fakt=fakt*i;
        }
        if(fakt == number){
            System.out.println(i);
        }else {
            System.out.println("0");
        }
        long end = System.nanoTime();
        long execution = end - start;
        System.out.println("Execution time: " + execution + " nanoseconds");
    }
}
```





“

COMET SHOEMAKER– LEVY 9



WHO IS LEVI9

FOUNDED
IN 2005

HEADQUARTER
IN AMSTERDAM

DELIVERY CENTERS
IN SERBIA,
ROMANIA AND
UKRAINE

THREE OFFICES
IN SERBIA

EMPLOY 1200+ IT
PROFESSIONALS

STUDENT OPPORTUNITIES



PROGRAMS FOR STUDENTS

INTERNSHIP

- Duration of the internship is 3 or 4 weeks, 8 hours a day
- An individual approach and a personal mentor
- Java, JavaScript, QA, DevOps, Data, Cloud, Mobile

SCHOLARSHIP

- For students who are enrolling in 4th and 5th year of studies
- Learn latest technologies used on commercial projects
- 10 months scholarship
- Become a Levi9 employee

MASTERCLASS

- Employment that starts with a couple of months of training
- Pay and benefits from the very beginning
- Testing, DevOps, JavaScript

CODE9

- Several technologies
- 4 weekends
- Practical work and mentorship
- Certificate

5 DAYS IN CLOUD

- Hackaton
- Two competition phases:
- Challenge (individual & online)
- Team Up Hackathon (offline)



SELECTION PROCESS



SOCIAL LIFE AT LEVI9

- Christmas Party
- Halloween Party
- Levi9 Anniversary
- Beer Party
- Kids Party
- B-day Party
- Gatherings
- Team Buildings
- AND MORE! 😊



BENEFITS

- | | | | | | |
|---|---|--|--|--|---|
| 
Hybrid Work | 
Flexible start of
your day | 
Paid sick leave | 
Private health
insurance | 
Levi9 Academy | 
Personal
development plan |
| 
Vacation days
loyalty program | 
Personalized
wellbeing
package | 
Home office
budget | 
Discount program | 
Family activities | 
Additional
days off |

2022-2023

**World
class
Work
place**



Best Globally above 1000 employees

Levi9



QUESTIONS



Heliant

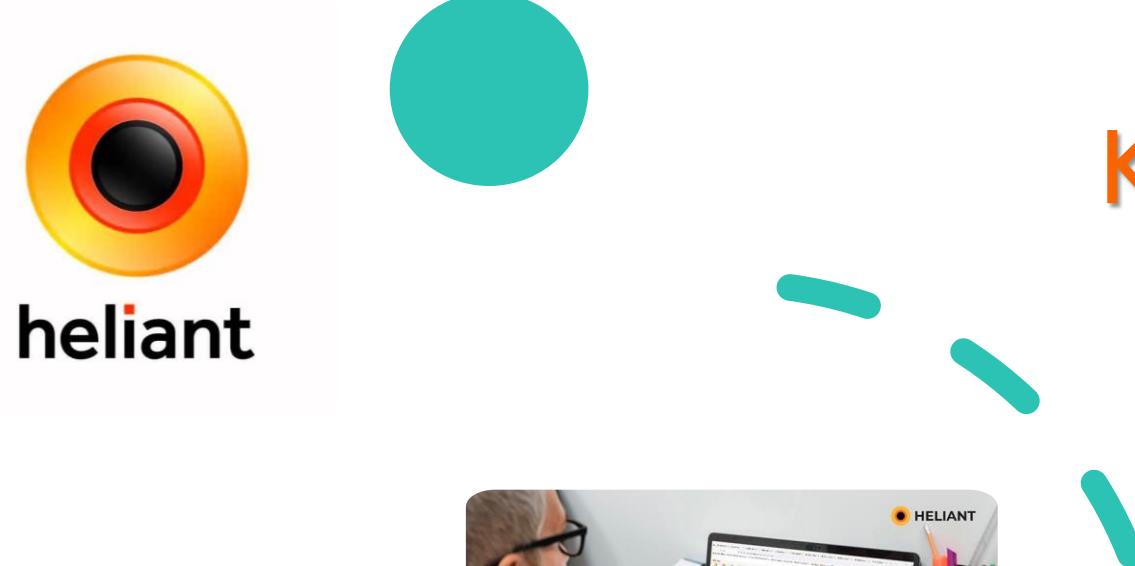
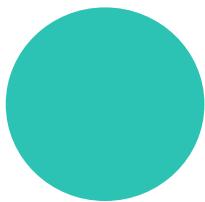


heliant





heliant



Ko je i čime se bavi Heliant?

- Domaća IT kompanija
- Kancelarije u Beogradu i Nišu
- Više od 20 godina razvoja softverskih rešenja u oblasti zdravstva i finansija
- Više od 270 ustanova u zemlji i regionu koristi Heliant rešenja
- Više od 40.000 korisnika
- Više od 80% lekara koristi Heliant
- Više od 100 zaposlenih



Makenzijeva 24

Softverska rešenja i proizvodi



 heliant	Zdravstveni informacioni sistem
 moneo	Poslovni informacioni sistem
 INFOLAB	Laboratorijski informacioni sistem
 RegiX	Registri pacijenata
 hedex	Softver za razmenu podataka
 fibi	Poslovna inteligencija u zdravstvu
 touch	Mobilne aplikacije



heliant



PERCONA
Server for MySQL



ORACLE®
DATABASE



mongoDB



heliant

Beneficije



- Privatno zdravstveno osiguranje
- FitPass
- Pristup svim Udemy kursevima
- Office Bite
- Business run manifestacije
- Team Building događaji

udemy™

SERBIA
BUSINESS
RUN

bite





heliant

Način rada i razvoj karijere

- Rad od kuće, hibridan pristup, rad iz kancelarije (po želji)
- Klizno radno vreme
- Rad u prijatnoj atmosferi uz podršku kolega
- Mogućnost napredovanja u različitim smerovima (menjanje tima ili tehnologija)
- Inspirativno radno okruženje



heliant

Heliant Tim



Pridruži nam se!



Hvala na
pažnji!

Heliant tim

<https://heliant.rs/>

Kontaktirajte nas na:

isidora.vidojevic@heliant.rs



SARADNJA SA FAKULTETIMA I STUDENTSKIM ORGANIZACIJAMA

FAKULTETI

- Matematički fakultet
- Fakultet Organizacionih Nauka
- Fakultet Tehničkih Nauka u Novom Sadu
- FEFA

STUDENTSKE ORGANIZACIJE

- SUMA
- BEST
- ESTIEM
- SEFA

PROJEKTI

- Case Study Show
- Sport Business Day
- Brojna predavanja
- Paneli

PRAKSA U SEKTORU BOOKMAKING

- Plaćena praksa
- Primena teorija koje ste učili u industriji igara na sreću
- Jul 2023. godine
- Prilika za ljubitelje sporta i matematike, statistike i verovatnoće





IT&Co.@MatF

RT-RK LLC

Maj 2023.

O kompaniji...



RT-RK je vodeća kuća u Jugoistočnoj Evropi za razvoj softvera u oblasti embedded sistema, sa fokusom na potrošačku elektroniku i sisteme za informisanje.

Osnovana je u Novom Sadu 1991. godine, a trenutno zapošljava preko 500 inženjera. Kompanija posluje u okviru TTTech grupe.

Imamo snažnu mrežu partnera:



Lokacije



Oblasti rada / projekti



System
Software



Internet
of Things



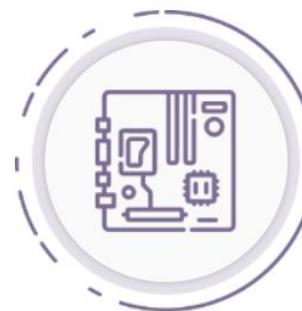
Android based
System



DSP Software
Programming



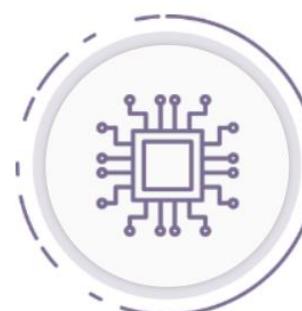
Video and
Multimedia



Hardware
Development



User Interface
User eXperience



ASIC and
FPGA

Kompanija pruža usluge u oblasti sistema zasnovanih na Android-u, sistemskog softvera, oblasti video i multimedije, razvoja softvera na DSP platformama, IoT tehnologija, UI/UX, ASIC i FPGA i razvoja hardvera.

O programu studentske stipendije:

Kome je namenjena stipendija?

- Studentima završnih godina osnovnih i master MATF-a koji nisu pre apliciranja za program odabrali temu master/istraživačkog rada.

Koliko traje stipendija?

- Dok student ne diplomira

Preduslovi za prijavu:

- Upisana 4.god. osnovnih akademskih studija Matematičkog fakulteta ili master studije
- Preporučuje se maksimum 4 preostalih ispita do kraja osnovnih studija

Rok za prijavu:

- Konkurs je otvoren tokom cele godine

Proces selekcije u RT-RK kompaniji



Teme BSc i MSc radova

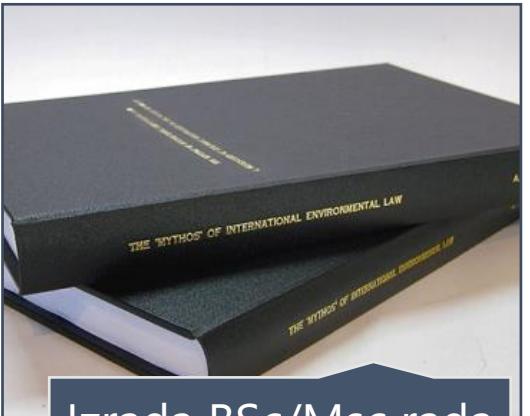
Brošura sa temama



- Siguran prenos digitalnih TV podataka
- Umreženi Android uređaji
- Integracija Google Flutter grafičkog okruženja na sistem sa ograničenim resursima
- Napredna provera autentičnosti Android STB uređaja upotrebom blockchain tehnologije
- Daljinsko upravljanje TV uređajem
- Razvoj podrška za televiziju u okviru Android Virtualnog televizijskog uređaja (CuttleFish)
- Kompjuterska vizija
- Konvolucione neuralne mreže (CNN)
- CARLA - open-source simulator za istraživanje autonomne vožnje



Benefiti RT-RK stipendijskog programa:



Izrada BSc/Msc rada
uz pomoć mentora



Profesionalni i
akademski razvoj



Stipendija



Pohađanje internih
stučnih kurseva



Druženje i sportske
aktivnosti



Prostorije za zabavu
i odmor

Trenutno otvorene pozicije

C++ SOFTWARE ENGINEER

GSM Modem Expert

STUDENT SCHOLARSHIP

APPLYING FOR CANDIDATE DATABASE

RT-RK → CAREERS → OPEN POSITIONS



RT-RK → CAREERS → STUDENTS CORNER



Letnja škola, avgust 2023.



Contact us

RT-RK Institute for Computer Based Systems
Narodnog fronta 23a
21000 Novi Sad
Serbia

www.rt-rk.com
info@rt-rk.com

TX Services

Company presentation



TX Services Company Presentation

Agenda

1. Introduction to TX Group
2. About TX Services
3. Why TX Services?



TX Services Company Presentation

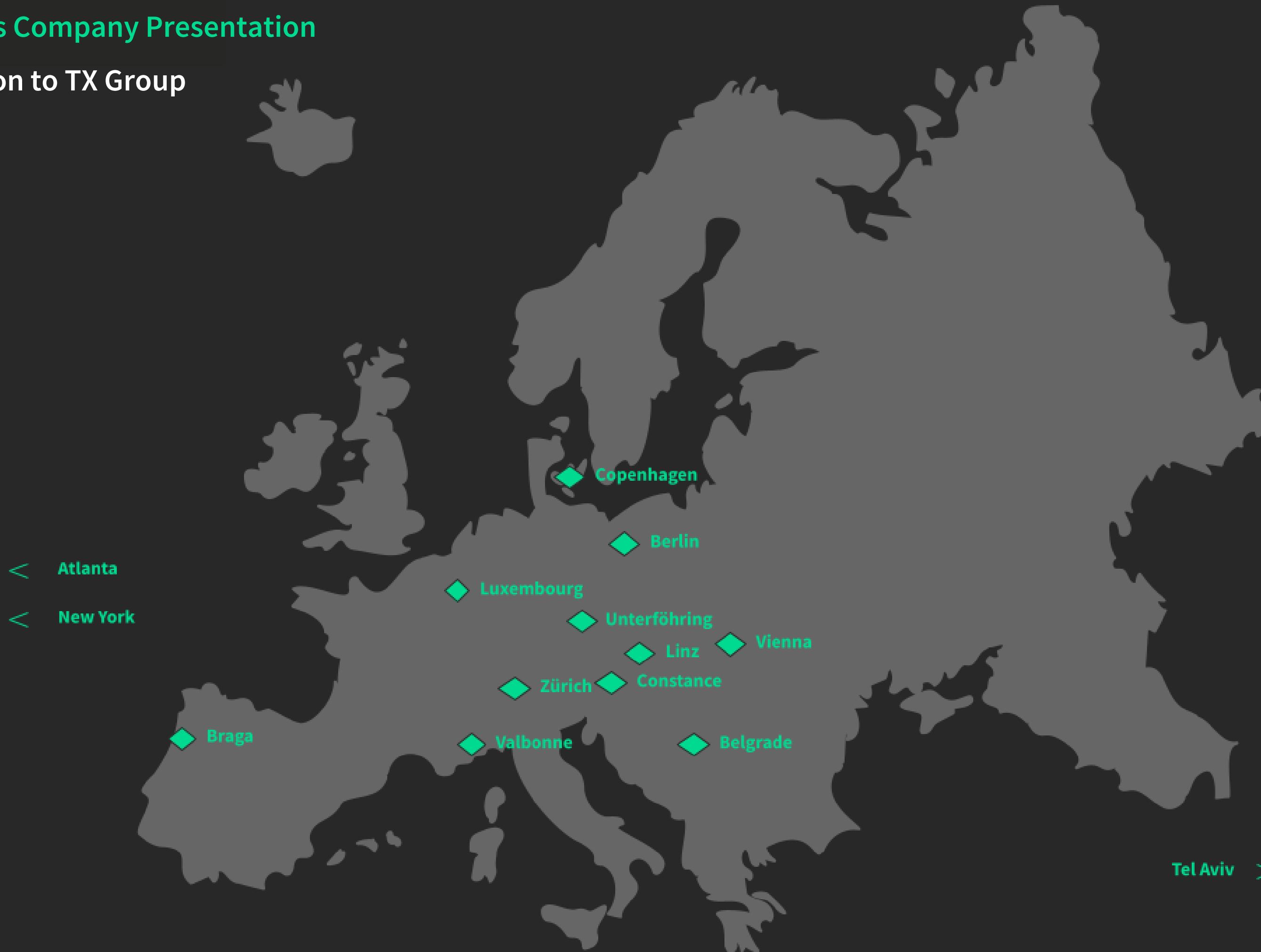
Introduction to TX Group



The TX Group is a network of media and platforms offering information, orientation, entertainment and services to over 80 percent of the Swiss population every day.

TX Services Company Presentation

Introduction to TX Group



Our Story

1893

Tamedia
was
founded

2000

Tamedia was
listed at Swiss
stock
exchange

2016

Belgrade
Nearshoring
Center was
established

2019

TX Services
was
established

2020

Company
changed name
to TX Group

2023

TX Services
opens the new
site in Braga,
Portugal

Present

TX Services
counts more
than 250
employees

TX Services Company Presentation

About TX Services

Introduction to the company

TX Services was founded in Serbia in November 2019 to provide nearshoring services for all areas of TX Group (engineering, IT, corporate services, and other back-office functions).

Our aim is to become one of the top employers on the market in Belgrade and a key operation within the TX Group. In 2023, TXS expands to Portugal.



TX Services Company Presentation

About TX Services

java

javascript

typescript

php

objective-c

swift

saas

python

apex

kotlin

spring

springboot

rabbitmq

jenkins

hibernate

reactjs

angulars

node.js

vue.js

php unit

slimphp

swoole

uikit

mapkit

coredata

xctest

firebase

nestjs

sql

postgresql

mongodb

docker

kubernetes

aws

ci/cd

redux

maven

ansible

aws-cli

gradle

jest

travis

unix systems

elasticsearch

git

html5

react hooks

salesforce

artifactory

cypress

selenium

esm

iterators

css

sast



Why TX Services?

We are on the move – and want to keep moving.

We are farsighted. We are proactive. We are courageous. We are TX.

lead
the
edge



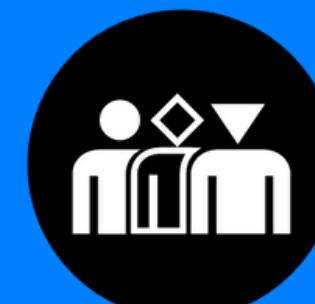
own
the
product



become
our
companion



navigate
through
our
diverse world



TX Services Company Presentation

Why TX Services?

- ConnecTX
- TX Conference
- MeetUps
- Team Buildings
- Offsite
- Parties
- Birthday celebrations
- Jubilees
- Charity events



TX Services Company Presentation

Contact

THANK YOU!

Any questions?



Let's stay connected!



TX Services Company Presentation

Contact

Milina Vasić

Junior Employer Branding & Communication Specialist

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milina.vasic@tx.group

Nikola Vuleta

HR and Project Associate

+381 60 8350 111 M

nikola.vuleta@tx.group





UNIQA osiguranje Srbija

Živimo bolje zajedno.



“

UNIQA već dva veka radi na osmišljavanju, kreiranju i isporuci inovativnih rešenja iz oblasti osiguranja. Oslanjajući se na izuzetnu ekspertizu u industriji, intelektualni kapital, ali i globalnu razmenu iskustava i saradnje, punih 200 godina izazove pretvara u prilike za svoje klijente.

UNIQA grupa

Kao jedna od vodećih osiguravajućih grupacija na dva ključna tržišta: Austriji i Centralno-istočnoj Evropi, UNIQA grupa **posluje na 18 tržišta** u kojima živi više od 300 miliona ljudi.

Zapošljava **22.400 profesionalaca** koji savetuju **16 miliona klijenata** kako da predvide, procene, bolje razumeju i na kraju preduprede rizike sa kojima se svakodnevno susreću.



Aktivnosti na 18 tržišta Evrope

Pored Austrije, na rastućem tržištu Centralno –istočne Evrope, prisutna je na sledećim tržištima: Srbija, Bosna i Hercegovina, Bugarska, Crna Gora, Češka, Hrvatska, Makedonija, Mađarska, Poljska, Rumunija, Rusija, Slovačka, Ukrajina i Albanija, kao i na tržištu Švajcarske i Lihtenštajna.



UNIQA u Srbiji



Naša priča počinje 2006. godine.

Osnovali smo UNIQA neživotno i UNIQA životno osiguranje.



Za više od 15 godina poslovanja,
investirano je preko 70 miliona evra na
tržište osiguranja u Srbiji.



Blizu 700.000 klijenata ukazuje nam
poverenje, sa preko 4 miliona zaključenih
polisa.

sTech



Od 2012. godine, pružamo IT podršku zemljama regiona: Bosni i Hercegovini, Bugarskoj, Crnoj Gori, Hrvatskoj i Srbiji.



Implementirali smo brojna rešenja, od kojih se posebno ističe sCore, koji našim klijentima omogućava integriran i efektivan sistem rada.



Rastemo i približavamo se broju od 100 zaposlenih. Ponosni smo na to što imamo skoro 50% žena u timu.

Pitanja



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