



Preparing the IT workforce for the unknown future



Who we are?

Yve Marcial

Pedagogue, with an emphasis on Corporate Education, Specialist in Distance Education, with an MBA in Project Management and Business Management.

Head of Academic Area of Superior School of Networks, Training Service Unit of Brazilian NREN, RNP.

Lifelong Learning enthusiast, through the Educational Consulting service, where designs corporate education projects aimed at leveraging the results of organizations with sustainability in the long term.





Leandro Guimarães

Graduated in Computer Networks, with more than twenty-five years in the Information Technology area, focusing on projects and planning. With an MBA in Project Management and another in Information Security, certified as PMP by PMI, Cobit Foundation by ISACA and certifications ITIL and

Cloud Computer Foundation by EXIN. Deputy director at Superior School of Networks, RNP's training service unit. Responsible for the strategic management of the ESR, observing the training and development opportunities and demands of RNP's client institutions.





Origin and Essence

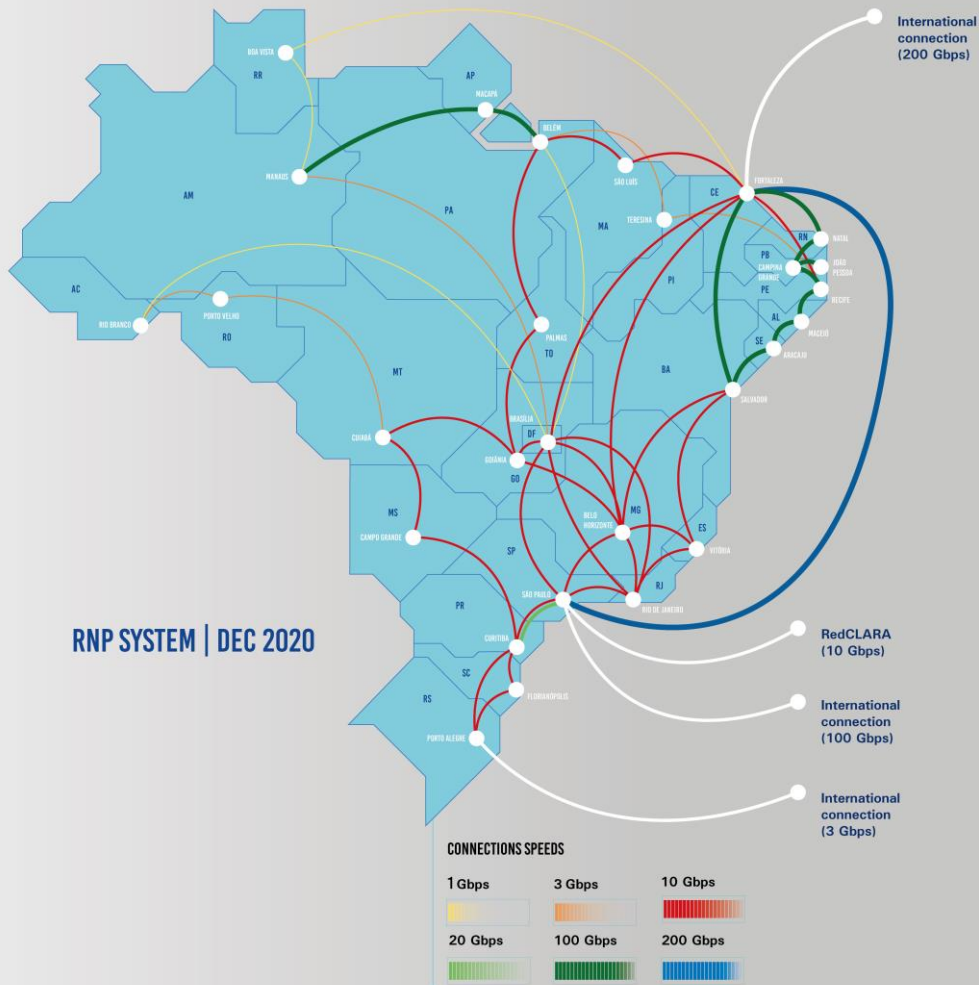
We are the Brazilian National research and education network. In 1992, we helped bring the internet to Brazil and we continue promoting the innovative use of Information and Communication Technologies, driving science and education for all.

<http://rnp.br>



RNP

44 Education and Research
Community Networks



782 Gb/s
aggregate capacity

149 Gb/s
international capacity



RNP



<https://brazilian.report/>

180.000 researchers



**Connecting 800 institutions
with 1.500 campuses**



**One of the largest
eduroam network in the
world with more than
3.000 hotspots**

4 millions of teachers and students



Collaborative Networks

**140 telehealth units
operating**
87 health specialties

more than 2.700 users
50 Special Interest Groups

300 hospitals
600 sessions in 2021



3.881 post-graduation programs





_Superior School of networks

_Superior School of Networks

Our purpose

“Develop highly qualified professionals, recognized by the market and disseminate ICT knowledge generated by (and for) the educational and research community”

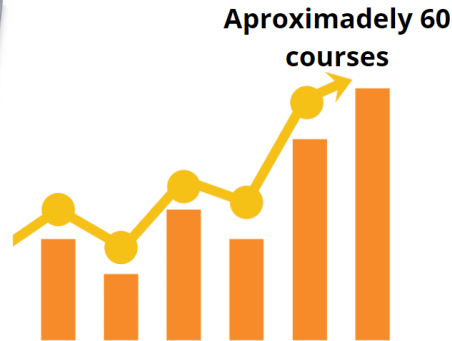


Superior School of Networks

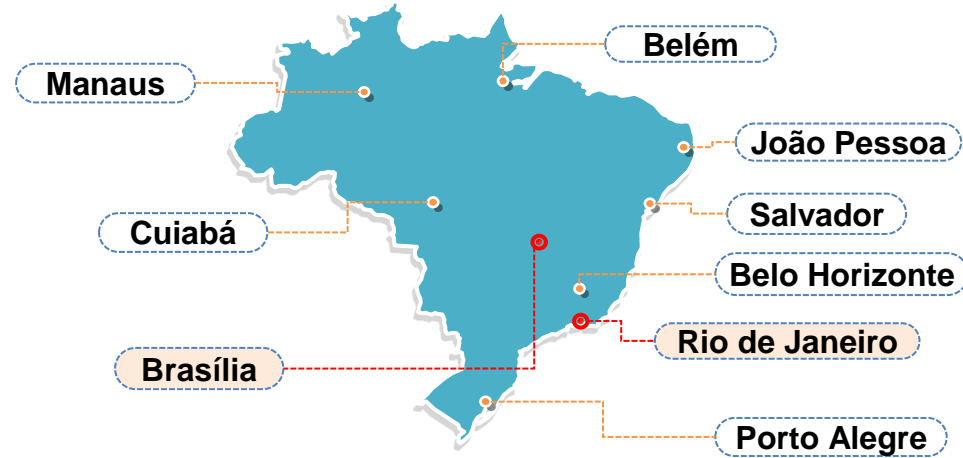
Launch in 2005



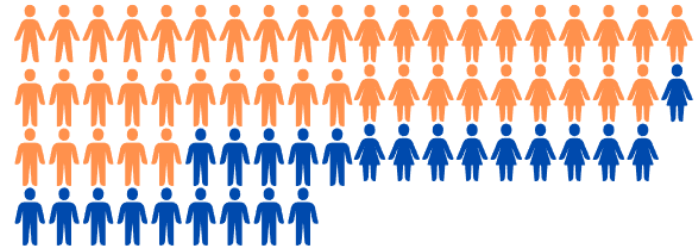
<http://esr.rnp.br/>



ESR branch offices



more than 36K students



ESR Portfolio

Approximately 60 courses





_ESR 3.0



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2017 - 2018

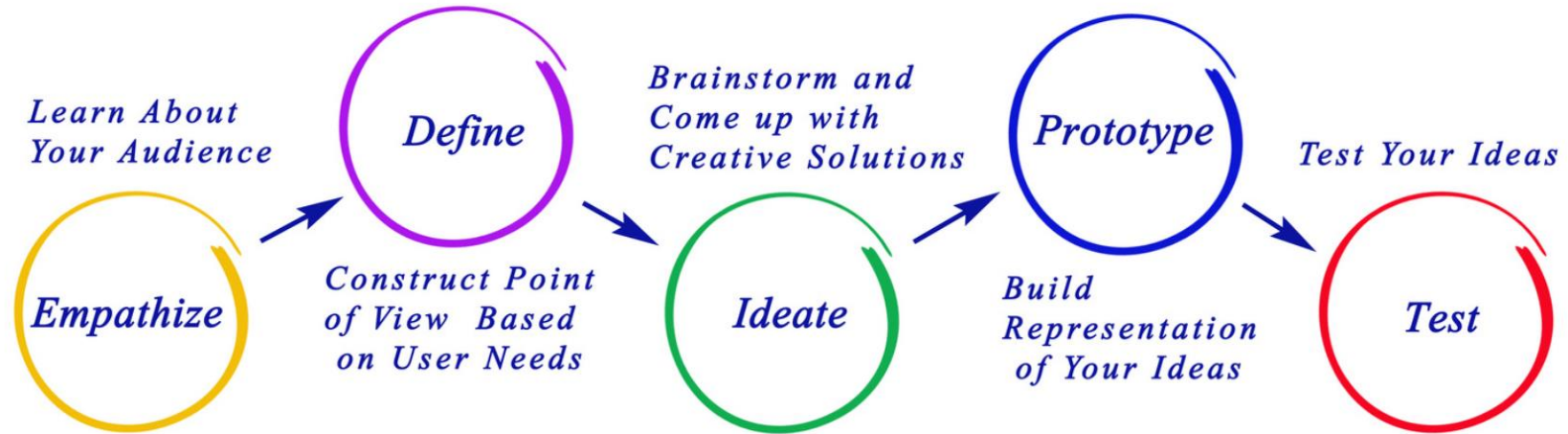
Problems identified in the ESR strategy:



- Difficulty of scale
- High costs to develop and maintain updated the portfolio
- Little coverage in the national territory (travel cost)
- Low availability to enrol a full-week courses
- Hardness to find professionals to work on the portfolio



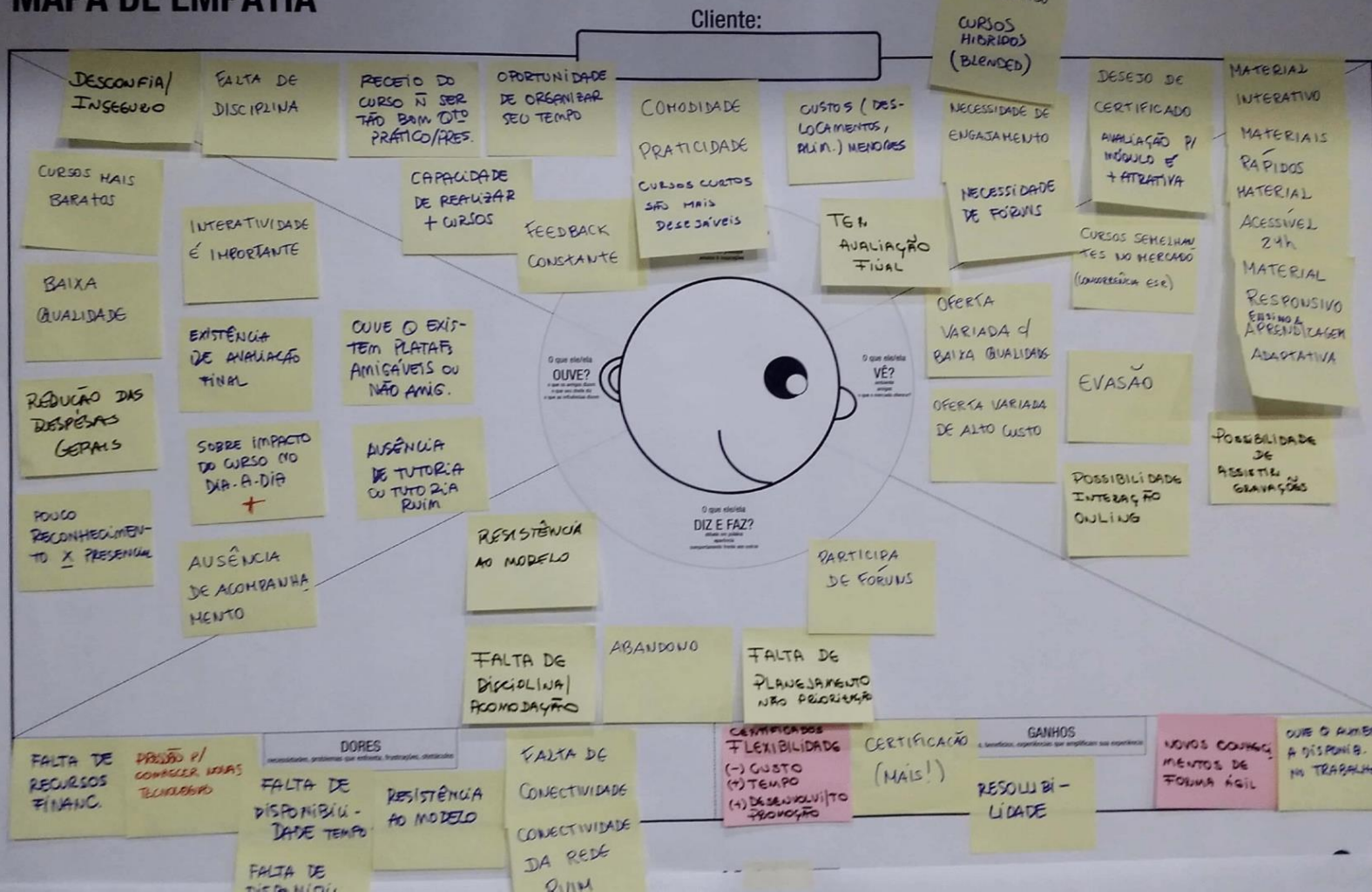
Design Thinking Process



DESIGN THINKING



MAPA DE EMPATIA



5) DIFERENÇA ENTRE OS CURSOS EM CATÁLOGO E NA PRÁTICA: INDICADORES DE QUALIDADE: - QUALIDADE DO MATERIAL - QUALIDADE DO TUTOR - QUALIDADE DO PROCESSO

1) O QUE SÃO CURSOS? - CURSOS SÃO PERCURSOS DE APRENDIZAGEM - INTERDISCIPLINARES?

2) COMO GARANTIR A INTERAÇÃO DOS ALUNOS DE CADA TURMA?

3) DE QUE MANEIRA O MATERIAL DEVE SER DIVULGADO?

4) A INTERAÇÃO DO MATERIAL DEVE SER OBRIGATORIA?

5) ALUNOS TEM CONDIÇÕES DE IMPRESSÃO DO MAT. IMP?

6) QUANTOS OS PRINCIPAIS PEDAGÓGICOS?

7) QUAL O PAPEL DO PROF E QUAL O DO ALUNO?

8) QUEM É O ALUNO QUE A ESR DESEJA?

9) TODOS OS CURSOS DA ESR SÃO PASSIVOS DE EAD?

10) TUTOR EM TODOS OS CURSOS?

11) QUAL O PAPEL DO TUTOR EM CADA TURMA?

12) OS CURSOS SÃO MODULARES?

13) QUAL O PAPEL DO PROFESSOR?

14) COMO GARANTIR A INTERAÇÃO DOS ALUNOS DE CADA TURMA?

15) A EAD COM ACESSO À INTERNET?

1) COMO TRATAR OS FEEDBACKS?

2) QUAL O TEMPO MÍNIMO IDEAL DE RESP. ADS PROB. DE TRANSMIS. AO VÍDEO?

3) COMO GARANTIR A INTERAÇÃO DOS ALUNOS DE CADA TURMA?

4) A INTERAÇÃO DO MATERIAL DEVE SER OBRIGATORIA?

5) ALUNOS TEM CONDIÇÕES DE IMPRESSÃO DO MAT. IMP?

6) QUANTOS OS PRINCIPAIS PEDAGÓGICOS?

7) QUAL O PAPEL DO PROF E QUAL O DO ALUNO?

8) QUEM É O ALUNO QUE A ESR DESEJA?

9) TODOS OS CURSOS DA ESR SÃO PASSIVOS DE EAD?

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11) QUAL O PAPEL DO TUTOR EM CADA TURMA?

12) OS CURSOS SÃO MODULARES?

13) QUAL O PAPEL DO PROFESSOR?

14) COMO GARANTIR A INTERAÇÃO DOS ALUNOS DE CADA TURMA?

15) A EAD COM ACESSO À INTERNET?

16) COMO GARANTIR A INTERAÇÃO DOS ALUNOS DE CADA TURMA?

1) DEVE HAVER ENCONTROS PRESENCIAIS P/ TODO CURSO?

2) COMO TRATAR OS PROBLEMAS DE TRANSMIS.?

3) DESEJO PRODUZIR OBRIGATORIA A INTERAÇÃO COM OS ALUNOS (EM TODOS OS MÓDULOS)?

4) A INTERAÇÃO DO MATERIAL DEVE SER OBRIGATORIA?

5) ALUNOS TEM CONDIÇÕES DE IMPRESSÃO DO MAT. IMP?

6) QUANTOS OS PRINCIPAIS PEDAGÓGICOS?

7) QUAL O PAPEL DO PROF E QUAL O DO ALUNO?

8) QUEM É O ALUNO QUE A ESR DESEJA?

9) TODOS OS CURSOS DA ESR SÃO PASSIVOS DE EAD?

10) TUTOR EM TODOS OS CURSOS?

11) QUAL O PAPEL DO TUTOR EM CADA TURMA?

12) OS CURSOS SÃO MODULARES?

13) QUAL O PAPEL DO PROFESSOR?

14) COMO GARANTIR A INTERAÇÃO DOS ALUNOS DE CADA TURMA?

15) A EAD COM ACESSO À INTERNET?

16) COMO GARANTIR A INTERAÇÃO DOS ALUNOS DE CADA TURMA?

1) AVALIAÇÃO

2) NÃO DEVE OCUPAR TODO O DIA DO ALUNO

3) CUSTO DO MATERIAL IMPRESSO SERÁ DO ALUNO

4) HS A ESR TEM 50% CURSOS PRÁTICOS A 20% DE TEÓRICOS

5) MODELO DE NEGÓCIO COM REQUISITOS DEFINIDOS MAS ESCALÁVEL

6) O CONTEÚDO ESR DEVE SER REGISTRADO

7) EAD PRECISA DESENVOLVER AS COMPETÊNCIAS TÉCNICAS

8) MODELO ESCOLHIDO DEVE SER SUSTENTÁVEL

9) CURSOS NO MAX. DE 24h P/ PILOTO

10) HAVER AVANÇO DE APRENDIZADO

1) CERTEZAS

2) EAD ESCALÁVEL ATINGINDO J.E. FORA CG

3) EVITAR BARREIRAS DE EXCLUSÃO

4) ESR MANTER O MESMO PADRÃO DE ENTREGAS ATIVAS NO MÍNIMO

5) HODGEO DE NEGÓCIOS EAD REGISTRADO E PATENTEADO

6) A INTERATIVIDADE DEVE SER QUANTIFICADAMENTE TRATADA RELATOS

7) PILOTO PARA TESTAR A METODOLOGIA

8) CURSOS MODULARES

9) A PLATAF. DEVE SER AMIGÁVEL E INTUITIVA

1) MAT. DEVE SER AUTO EXPLICATIVO

2) DEVE HAVER VÍDEO ATLAS C/ INTERAÇÃO

3) PÚBLICO-ALVO CG + CIENTISTAS ATIVAS

4) CUSTOS DENTRO DA CONT. G. E TEMAS CIENTISTAS ASSUMEM DESPESAS

5) PÓS-AUD. DEVE DE UMA CAPAC. TRATAR ASSUNTOS DIFÍCIS E/OU O SÃO ENTREGAS DA RNP

6) HODGEO DE NEGÓCIOS SUSTENTÁVEL FINANCEI. RENTÁVEL

7) ALUNOS TEM MEDO DA PERDA NA QUANTIDADE DA CAPAC. DA ESR

8) HAVER ATIVIDADES DE FEEDBACK

9) Reforço sobre o tipo de curso ESR. Quem não auto instrucionaliz.?

1) UMA TURMA POR MÓDULO

2) DILUIR O CUSTO DO MAT. IMPRESSO NO % DO MATERIAL

3) MATERIAL IMPRESSO CEBIDO P/ BÔNUS DO CLIENTE

4) ALUNOS QUE JÁ TRABALHAM NO UNIVERSO DE TI

5) ALUNOS DESEJAM AUTONOMIA EM SEU APRENDIZADO

6) PAGAMENTO RECORRENTE - POR TEMPO

7) PAGAMENTO RÁPIDO NA RESP. DA TUTORIA

8) SERVIÇO DE TUTORIA À PARTE FORA CONTEÚDO ESPECÍFICO

9) Alunos matam suas dúvidas

1) SUPOSIÇÕES

2) O ALUNO NÃO TEM COMO IMPRIMIR O MATERIAL EM SAÚDE

3) Cada pessoa precisa + equipamento + conexão + complicado

4) ALUNOS QUE JÁ TRABALHAM NO UNIVERSO DE TI

5) ESR OFERECE CURSOS P/ MULTIPPLICADORES DO MAT. PRÓPRIO

6) PAGAMENTO RECORRENTE - POR TEMPO

7) PAGAMENTO RÁPIDO NA RESP. DA TUTORIA

8) SERVIÇO DE TUTORIA À PARTE FORA CONTEÚDO ESPECÍFICO

9) Alunos matam suas dúvidas

1) ACESSO AO EAD MAT. VIA CELULAR

2) MODELOS DE CURSOS P/ TIPOS DE PRÁTICAS

3) REDE CLARA (AM. LATINA) SEGUNDA ETAPA DO PROJETO C/ MODELO DE NEGÓCIO ESPECÍFICO

4) PAGAMENTO A PARTIR DA TUTORIA

5) PAGAMENTO POR PLANOS - MENSAL - ANUAL

6) PAGAMENTO RÁPIDO NA RESP. DA TUTORIA

7) Alunos matam suas dúvidas

8) DISPONIBILIZAR RESULTADOS DAS AVALIAÇÕES E ANÁLISES DAS CUSTOS/FINANÇAS

9) TURMA QUE EXISTE DE VÁRIOS MÓDULOS DIFERENTES





2019

Pillars of the new strategy



Partnerships



Distance Learning



Educational consultancy



Partnerships



Loading...



Distance Learning

Online classes with
in-class experience



DISTANCE LEARNING DEVELOPMENT



DEEP DIVING

Through interviews with ESR customers, learning processes pains and possible causes of low use of distance education in government were raised

DESIGN THINKING

Customers, RNP support areas, ESR, and external consultants carried out a co-creation process.

DEVELOPMENT

As prototyped in the design thinking phase, ESR developed an intuitive platform, leveraged by ESR's distance learning methodology.

PILOT

Several pilot groups were held with RNP's client institutions, collecting feedback and adjusting the platform or methodology to ensure that what was thought of by the ESR was being carried out.

GO LIVE!

The ESR e-learning was launched in 2019 during the 2019 RNP Forum.

_Educational Consultancy



The educational consultancy helps the leadership in elaborating an action plan aligned with the needs of the institution.

Traditional model problems

One day Alice came to a fork in the road and saw a
Cheshire cat in a tree.

"Which road do I take?" she asked.

His response
was a question:



"Where do you want to go?"

"I don't know," Alice answered.

"Then," said the cat,

"it doesn't matter."

_Educational Consultancy

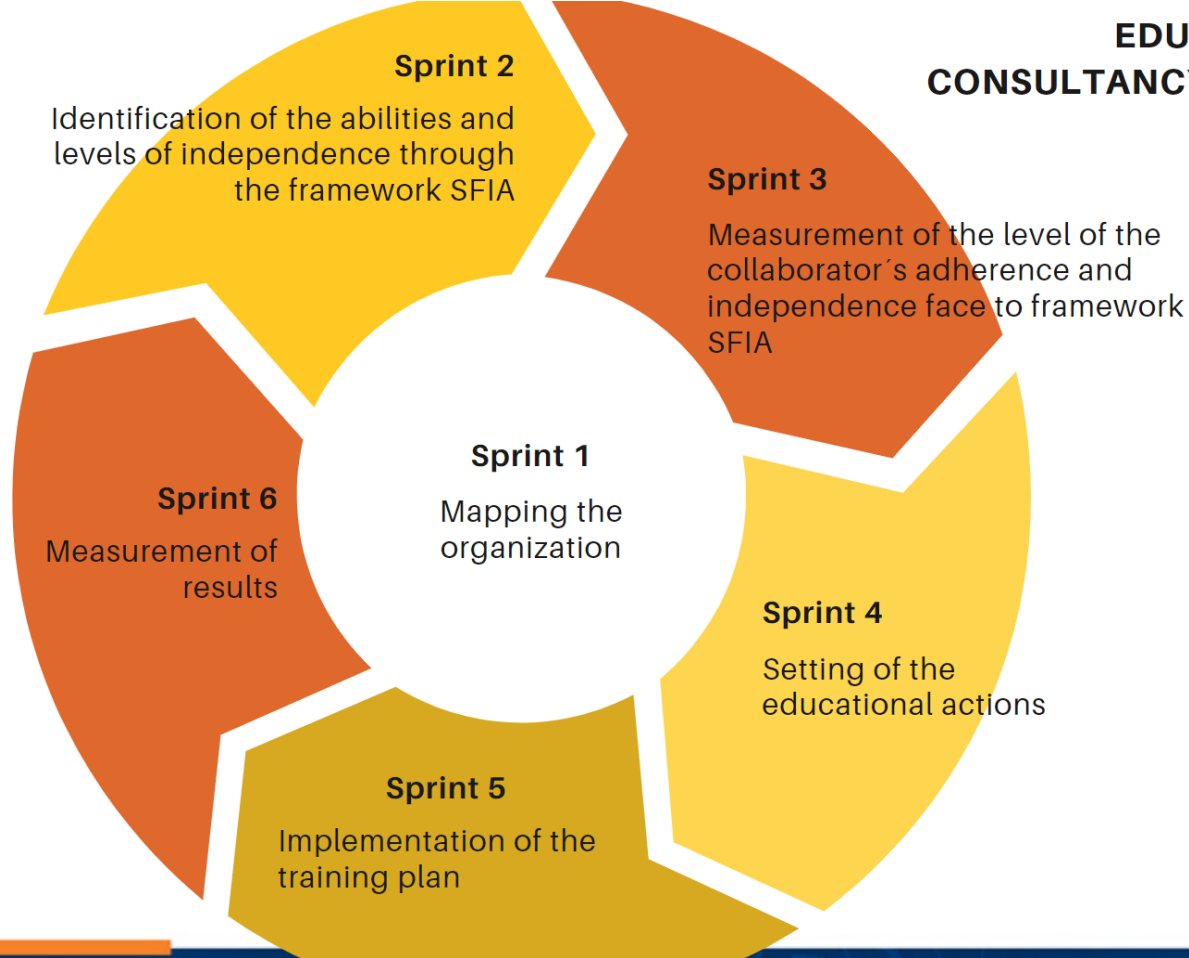
Educational Consultancy is a service that guides managers to the improvement of their teams:

It decreases time spent in planning and accomplishment of plans of professional development

It optimizes resources invested in training

It measures and guarantees more expressive results, always connected to the strategy of the company

EDUCATIONAL CONSULTANCY SPRINTS



Our Differentials

- The union with a global partner added to ESR's tools and resources are the ideal solution for managers who don't possess a specific and formal structure of professional development in their IT areas;
- Our partner, **SFIA**, is a non-profit global organization that feeds a method of abilities and skills for a digital world;
- Besides improving the performance of your teams, the use of this framework makes possible comparing your company or organization to players all over the world.





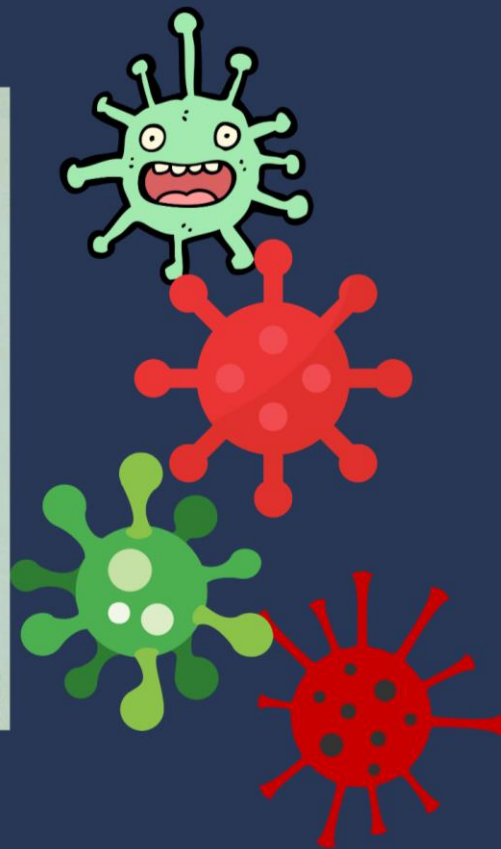
2020 FORECAST

- 15% DISTANCE LEARNING CLASSES
- 85% IN-CLASS CLASSES
- TOTAL OF 2.500 STUDENTS
- 3 EDUCATIONAL CONSULTING CLIENTS
- ANNUAL BILLING OF €600K



HELLO
FEBRUARY







**Approximately 60 courses have been
adapted to be used online**



In 2020, ESR was forced to bring forward the Strategic Plan by 2.5 years, executing 100% of the classes published on the ESR calendar remotely.

Distance learning with face-to-face classroom experience

ESR's Distance Learning methodology is based on online meetings with course tutors. This meeting brings the student the experience of being in a classroom, exchanging information with other students and with tutors.



2020's Results

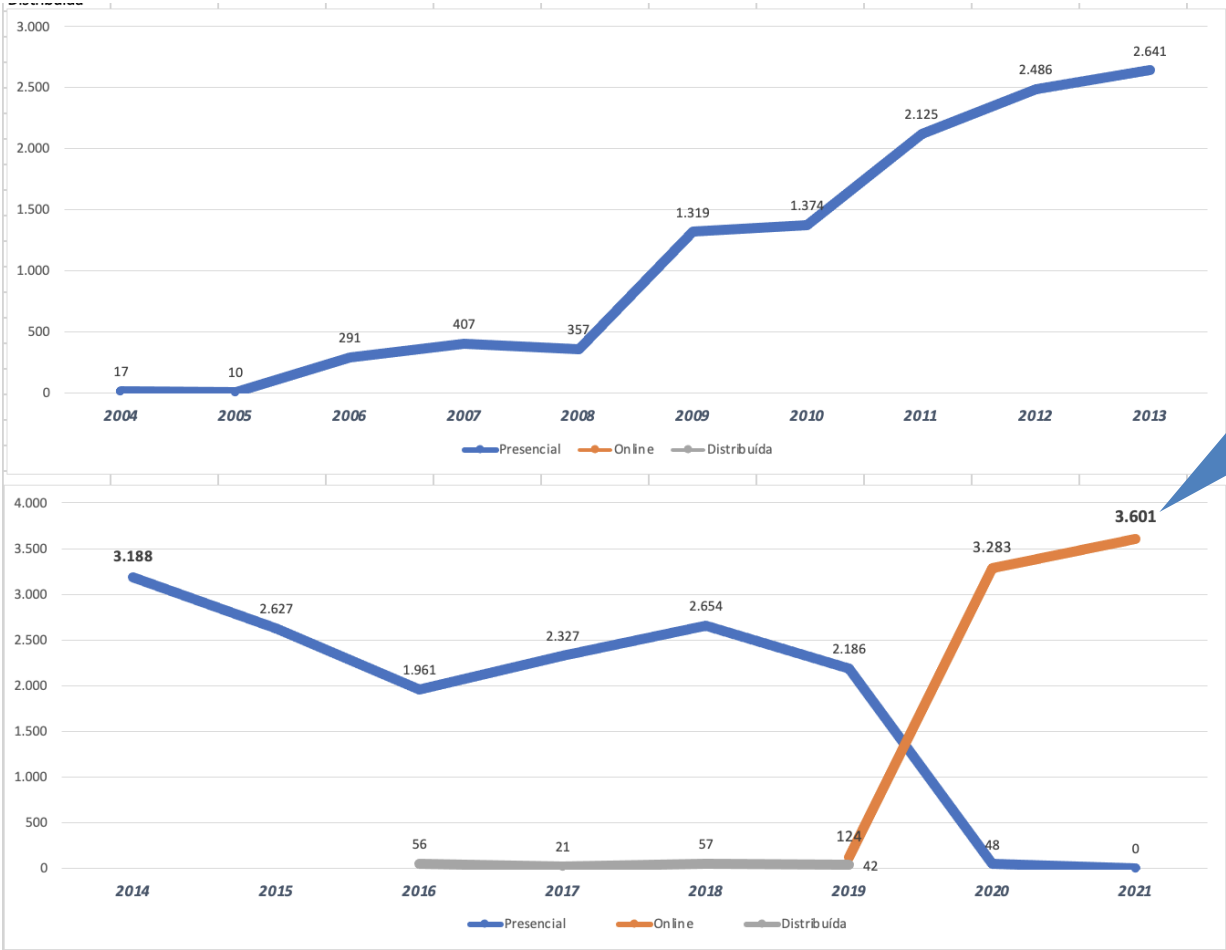
144 classes executed
3,283 students trained

2021's Results

171 classes executed
3,601 students trained



Distance learning



Partnerships



Cloud labs

SANS

- American security and privacy institute
- Unique partner in Brazil





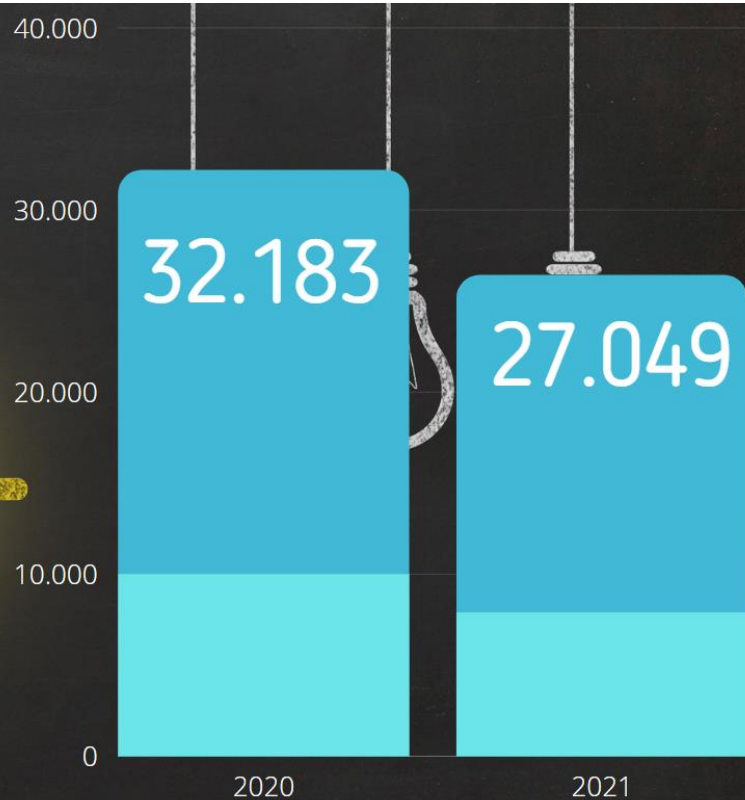
Webinars

47

2020

45

2021



Participants

10.002



2020

7.891

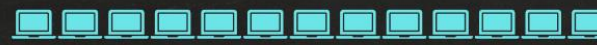


2021

Webinar

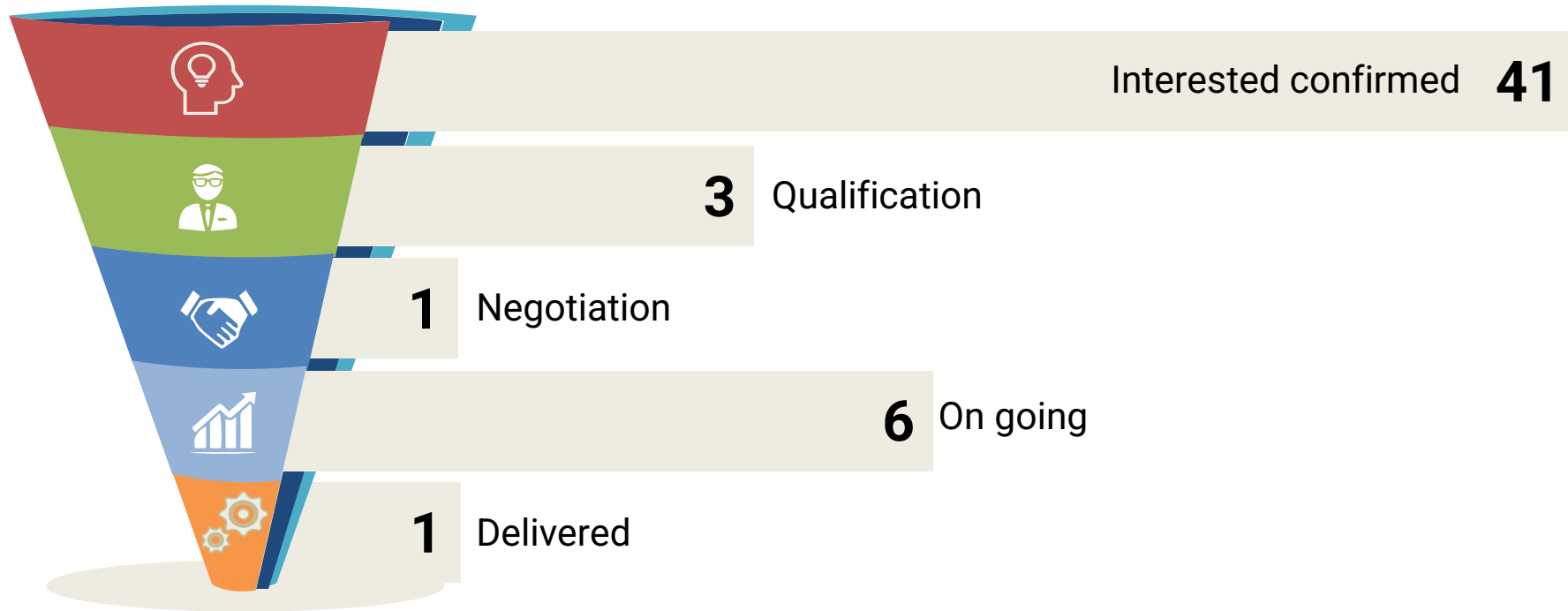
On demand

22.181



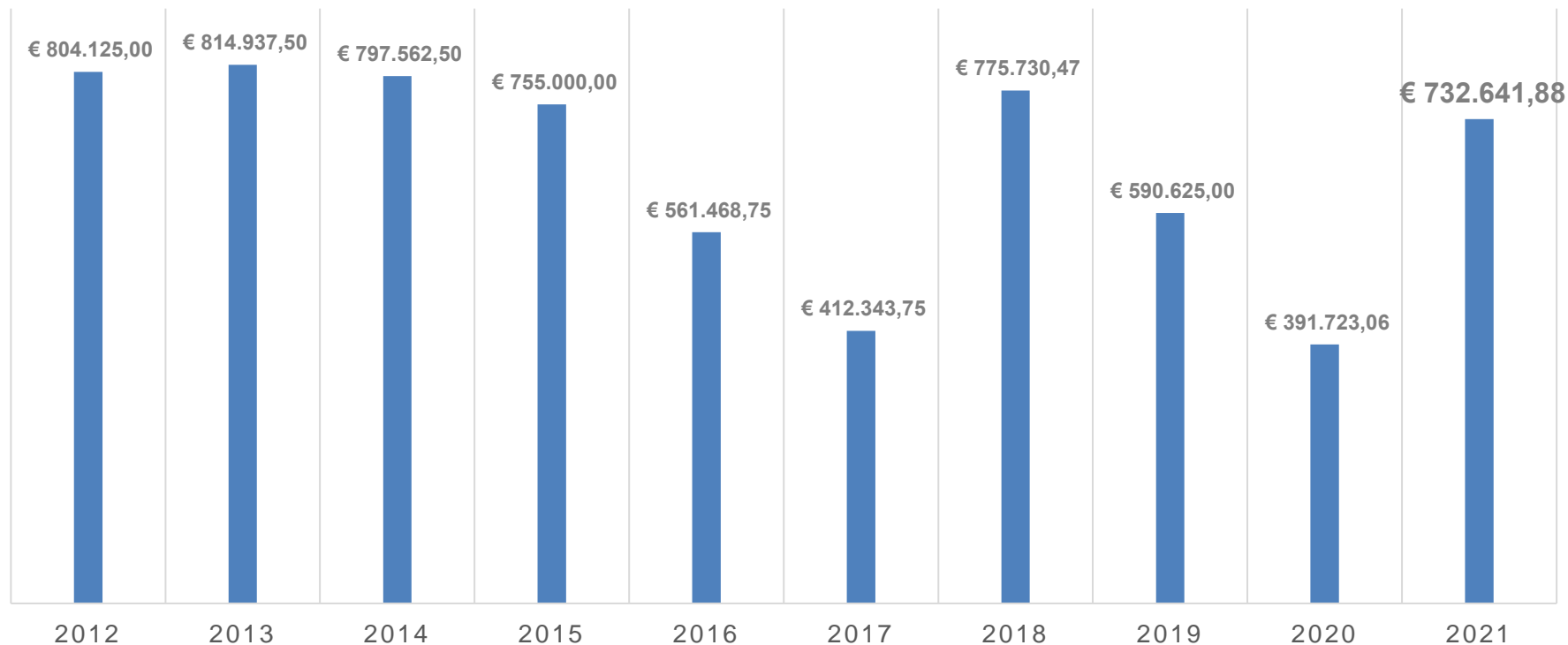
18.530





Billing

Accumulated billing: € 8.290.713,77





**It's always fun to do the
impossible. Because that's
where there is less
competition.**

WALT DISNEY



ESCOLA
SUPERIOR
DE REDES

Thank you!

escola-superior-de-redes

