

ZANGAR



ANNUAL REPORT
JUNE 1, 2019 – JUNE 30, 2020



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The International Youth Foundation
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LIST OF ACRONYMS

APEC	Atyrau Petroleum Educational Center
BE	Bolashak Engineering
CAC	Community Advisory Committee
IC	Info Center
IYF	International Youth Foundation
M&E	Monitoring and Evaluation
NGO	Non-Governmental Organization
PTS	Passport to Success®
SB	Sumato Batys
STEAM	Science, Technology, Engineering, Arts and Math
STEM	Science, Technology, Engineering and Math

EXECUTIVE SUMMARY

The Zangar initiative launched in June 2015 and officially closed in June 2020. The International Youth Foundation (IYF) is deeply grateful to Chevron for the opportunity to have co-designed this project together and for the opportunity to address critical issues such as equipping young people in the Atyrau community to be productive 21st-century economic actors and engaged citizens. Over the past five years of implementing Zangar, IYF has laid the groundwork for sustainability by integrating its Passport to Success® (PTS) life skills curriculum into area educational institutions and creating a local cadre of PTS Trainers, Master Trainers and Coaches; opening the first Fab Lab in Kazakhstan and engaging both young people and the broader community in STEM activities and skill-building, grooming local organizations as STEM and PTS Champions; strengthening the capacity of local partners to deliver Zangar programming effectively; and cultivating positive relationships with local stakeholders, including the Akimat, school and university administrations, other private sector players, NGOs, and parents. In its final year, Zangar developed plans to prepare local educational organizations to sustain programming after Chevron's investment ended. Maintaining a strong local program presence through July 2020 has proved critical to solidify both long-term local access to valuable program interventions and Chevron's legacy.

Over five years, Zangar reached 11,559 young people through PTS life skills training and STEM programs. 402 local trainers were trained in delivering the life skills and STEM activities. 52 educational organizations were involved in Zangar's program implementation.

FROM 2015–2020

11,559

YOUNG PEOPLE TRAINED
THROUGH PTS & STEM PROGRAMS

402

LOCAL TRAINERS
TRAINED

52

EDUCATIONAL ORGANIZATIONS
INVOLVED

As a global international development organization, IYF designed this project through the lens of young people's needs, community assets, and local leaders and educators' goals for their community and future. The idea of a curriculum focused on STEM is still relatively new in Kazakhstan. Zangar was one of the first programs in Kazakhstan offering STEM programming, it has helped expand life skills and STEM programs in the region, supporting young people not just in deepening their skillsets, but in expanding their understanding of how fun, creative, and rewarding a STEM education can be.

Over the course of the program, IYF was invited to speak at a number of events about the project's approach and results, including the VI Almaty Innovation Forum and Almaty Maker Fair in 2017, Zhas Talks conference in Nur-Sultan, and to several central government officials such as the State Secretary,

Minister of Civic Development, and the Vice-Minister of Education and Science. During a national forum in October 2017, Zangar received praise by the former Atyrau regional mayor as one of the bright examples of effective trilateral partnership between NGO, business, and government.

In Year 5, Zangar continued to impact young people with another round of youth beneficiaries graduating from life skills and continuous STEM trainings. In the final quarter (April – June 2020), the state of emergency, issued in Kazakhstan due to the COVID-19 outbreak, caused the cancellation of the remaining in-person Zangar related activities, including Passport to Success® life skills training in three Champion organizations, STEM courses in three Champion organizations, and the operation of Fab Lab Atyrau. To address the impact of the pandemic on the program, IYF developed a robust contingency plan at the start of the state of emergency in March 2020. The contingency plan enabled the team to pivot project activities and develop working budget scenarios aligned to different assumptions about the pandemic impact in-country. Key activities within the project and the contingency plan helped Zangar reach its performance indicators set for Year 5 and adapt to new methods of implementation.

KEY HIGHLIGHTS AND ACCOMPLISHMENTS OVER THE FIVE-YEAR PROJECT (JUNE 2015 TO JUNE 2020)

Passport to Success (PTS)

Life Skills Training: **4,993 young people** benefited from PTS training over the five-year initiative. Zangar reached **154 young people** through life skills PTS training in Year 5, exceeding its target of 100.

Community-Based Projects: Passport to Success® **graduates implemented 225 social projects.** These projects allowed young people to demonstrate their acquired life skills by solving problems they saw in their local community. For the majority of Atyrau youth, the PTS community-based projects experience was their first deliberate contribution to their communities. It instilled a sense in youth that they can make a difference.

Local PTS Partner: Zangar's Life Skills implementing partner, Info Center (IC), led logistical support of the PTS program, including collection of M&E data, organization of focus groups; trainers' coordination, and working closely with schools' administration from 2015-2019.

PTS Graduations: 15 PTS events have been held to celebrate the success and achievements of students. The graduation ceremonies engaged the representatives of local government, non-profit organizations, and parents, and gained considerable attention from the local and national media. The ceremonies provided the graduates and trainers with a platform for sharing their success stories.

STEM Activities

STEM Training: Over the course of the five-year initiative, **3,078 youth** successfully completed a STEM training. In Year 5, **399 youth** participated in continuous STEM activities surpassing the target of 250.





STEAM Festivals: Zangar organized five STEAM festivals, engaging **over 2,400 participants**. Youth and their families immersed themselves in the exciting world of engineering, robotics, 3D modeling, and arts. Hundreds of teenage volunteers, many of whom were Zangar participants, taught young people and adults interesting science-related principles. This unique, interactive learning opportunity was made possible through the efforts of IYF in effective partnership with numerous local organizations, such as Atyrau museums, universities, and arts studios. STEAM festivals gave way to a new tradition for the Atyrau community—STEM, including concepts like art and music, came to be seen as a vehicle for change and advancement in Kazakhstan.

STEM Light Touch Activities: Over the five-year program, **1,021 young people were reached** through Zangar's STEM light touch events. Events included:

- Hackathon Olympiads for young people aged 14-22 to discover solutions to real world STEM-related problems
- Hour of Code, an introduction to computer science and computer programming for young people aged 10-22
- Fab Lab introductory tours
- STEM Isteik! family events

During these light touch events, youth were exposed to STEM-related exercises and offered hands-on opportunities to better understand STEM. Regular light-touch introductory activities allowed participants to experience coding, 2D and 3D modeling, exercises with electric circuits and Arduino platforms, and build STEM awareness within the community.

Robotics Clubs: Zangar's Robotics Clubs offered young people training in **eight educational organizations**, including seven schools and one college. The activities of the clubs were managed by IYF local STEM partners.

Capstone Program: Zangar’s Capstone students tackled real-world issues by creating unique and innovative solutions to existing problems. Through the program graduates built **86 prototypes**, including an automated wheelchair, a remote-controlled robot for exploring hazardous environments, a laser to beam energy from the moon to Earth, and a robotic solar tracker. Capstone participants presented their prototypes at annual Capstone Exhibitions and the projects were evaluated based on the Capstone Rubric tool. Local robotics teachers from Nazarbayev Intellectual School, STEM experts from other cities, and local community members attended and judged these Capstone exhibitions.

Zangar Capstone graduates were frequent winners of local, national, and international competitions and Olympiads. The most striking achievements include victories at Atyrau World Skills Championship; participation in the semi-finals of ‘Startup Bolashak: Menin Armanym’ a national youth business projects competition in Nur-Sultan; participation in TOM:Kazakhstan, an international social project connecting inventors and people with disabilities, in Nur-Sultan and Aktau; victories at the National Competition of Science Projects in Almaty; the National Innovation Competition in Nur-Sultan, and many others. Some Zangar students have received full scholarships and significant tuition fee reduction in universities of Kazakhstan because of their Capstone projects.

STEM Graduations: 14 STEM events have been held to celebrate the success and achievements of students. The prototypes built by STEM training participants were presented during the graduation ceremonies. The events engaged the representatives of local government, non-profit organizations, and parents, and gained considerable attention from the local and national media.

Local STEM Partners: Zangar’s two implementing STEM partners, Sumato Batys (SB) and Bolashak Engineering (BE) launched their trainings in 2016. SB provided youth training for Zangar Robotics Clubs at eight secondary schools and conducted a series of trainer retreats. BE offered a signature STEM education program to students aged 10 to 22. BE equipped youth with skills in engineering, programming, robotics, and 3D modeling. The BE program was implemented in four educational institutions of Atyrau and eight local teachers were trained as trainers.





Zangar's Ecosystem

Capacity Building: Strengthening the capacity of Zangar's implementing partners was a central function of IYF's efforts to nurture the ecosystem of local youth-serving organizations in Atyrau. IYF provided partners IC and BE with a range of capacity building services, from comprehensive operational support to intensive workshops based on their respective needs and roles within the Zangar program. **402 local trainers** were trained in delivering life skills and STEM activities to young people.

Organizations Engaged: 43 organizations have implemented PTS, including education institutions, the Center of Extracurricular Activities, the Dom Mamy Crisis Center, Shanyrak Children's and Juvenile House, and Sports Club for Disabled. Zangar STEM program reached **28 implementing partners** represented mainly by local education organizations.

Community Advisory Committee: The Zangar Community Advisory Committee (CAC) has become an effective tool to ensure that all program activities reflect the interests and needs of the community and are grounded in locally driven solutions owned and nurtured by the Atyrau community. As a group of diverse representatives of the Atyrau community, the CAC promoted the objectives of the Zangar program through active engagement in project-related dialogue and decision-making processes. In total, **28 representatives** of Atyrau community, including youth, became CAC members. Eight meetings were held semi-annually for the first four years of the program. CAC successfully fulfilled its function and ceased its activity in July 2019.

Zangar's Visibility: IYF ensured Zangar and Chevron received continuous visibility within Kazakhstan over the five years of program implementation. Zangar program activities gained considerable attention from the media, resulting in **232 positive media mentions**, far surpassing the target of 150 and including 86 at the national level. Over five years, Zangar succeeded in establishing a positive image of the program and building trusting and positive relationships with the media community.

Leveraged In-Kind Support: Zangar has benefitted from important local partnerships that have provided in-kind contributions to the project, **valued at \$325,885**. The majority of this in-kind leverage comes from the education sector. Atyrau University and APEC PetroTechnic college (APEC) provided physical space, utilities and related services to allow the **Fab Lab Atyrau** to operate on their campuses. One of the largest contributions made to Zangar is from committed volunteers and a multitude of stakeholders, who have together logged **8,022 hours of time** on the project. ([See pg. 19, Annex A for the Zangar Final Leverage Report.](#))

KEY HIGHLIGHTS AND ACCOMPLISHMENTS OF YEAR 5 (JUNE 2019 TO JUNE 2020)

The program's fifth and final year was focused on youth programming sustainability. The scale of the program was considerably smaller compared to previous years given the focus and reduced budget. IYF discontinued working with two local implementing partners—BE and IC—as their grant agreements ended in May 2019. IYF continued the implementation of its core programs with new beneficiary cohorts enrolled in PTS and STEM trainings, organized several STEM light touch events, and built upon effective partnerships with PTS and STEM Champion organizations to ensure their continued commitment to sustaining Zangar activities beyond the program. IYF also cooperated with Chevron's partners working on the Atyrau Youth Center (AYC) preparation. The results reached by the project in Year 5 are attributable to the solid groundwork done from 2015 to 2019:

Life Skills Sustainability: In Quarter 4 of Year 5, IYF signed Passport to Success® License Agreements with Atyrau University of Oil and Gas, Atyrau College of Business and Law, and secondary school #34. These organizations agreed to continue independent on-site delivery of PTS Life Skills training. eight faculty at these organizations are certified PTS trainers and able to deliver life skills training both in Kazakh and Russian languages.





STEM Sustainability: Three educational organizations including Atyrau Industrial College and secondary schools #19 and 35 have incorporated a Zangar STEM program into their academic curricula. The Industrial College integrated the Zangar STEM program into two required subjects: Electro Schematics and Physics. In secondary schools #19 and #35 Zangar’s STEM component became an elective subject and was included into the academic schedule. Starting in 2016 the organizations provided administrative assistance in implementing the STEM component of the Zangar project by hosting Robotics clubs and the Bolashak Engineering program and were interested in sustaining the program.

AYC Opening: Over several months the IYF team helped prepare for AYC’s opening event. A plan of activities was developed together with Zangar PTS and STEM trainers and provided to the EZS event agency to showcase the life skills and STEM components of the program during the opening ceremony. In addition, the IYF team assisted in developing infographics and a Zangar promotional video in January and February, respectively. During these months, IYF worked closely with the NovaCity.kz company to arrange for the preparation and filming of the video, including:

- Selecting Zangar activities and locations for filming
- Selecting and interviewing PTS trainers
- Managing and coordinating logistics with PTS trainers and filming crew
- Preparing a list of potential interviewees, which included Zangar graduates and young people currently enrolled in the training
- Reviewing and finalizing text for the video
- Preparing two locations for filming: (1) Atyrau College of Business and Law (PTS training) and (2) Fab Lab Atyrau (STEM)
- Supporting the film crew, including briefing on the projects, logistics, filming, etc.

Unfortunately, the AYC opening has been indefinitely postponed due to the COVID-19 public health crisis.

Programmatic Pivots in the Wake of COVID-19: A state of emergency was issued in Kazakhstan in mid-March, resulting in the suspension, and later the cancellation, of all in-person Zangar activities. Activities that did not require in-person gatherings continued through virtual means:

- Video lessons for APEC students: 13 video lessons on Graphic Drawing were prepared and filmed for APEC students enrolled in the APEC-Fab Lab integrated course.
- Virtual STEM light touch activities: STEM light touch activities were redesigned. Three “STEM Isteik” activities, during which participants experienced coding, were successfully held through a Zoom digital platform in April and May.
- Python courses: A new online course on programming developed by IYF was launched in May.
- Focus group discussions: Virtual discussions were held to receive student reflections and feedback on PTS training.

Distribution of Fab Lab Atyrau’s Equipment Post-Zangar: In consultation with Chevron, IYF distributed the Fab Lab Atyrau equipment between AYC’s STEM Lab and APEC PetroTechnic, the current host of the laboratory. AYC is as a public space for Atyrau’s young people. Moving core Fab Lab Atyrau equipment to AYC will strengthen STEM Lab’s technical capacity and raise greater awareness around STEM. It will also ensure that young people have access to hands-on opportunities to experience STEM. APEC will continue using state-of-the-art equipment within the internal educational programs of the college. The equipment that remains at APEC includes, one large CNC milling machine, four laser cutters, three laptops, three monitors, and additional supplies. These items will be integrated into APEC’s labs and will remain accessible to Atyrau’s young people, including young people being trained at AYC’s STEM Lab. The IYF team worked closely with AYC’s STEM Lab representatives to facilitate the transfer of equipment.

M&E: In Year 5, the results of the PTS and STEM self-reported post-evaluation analysis showed that over **76 percent** and **87 percent** of young people demonstrated an overall increase in life skills and STEM





competencies, respectively. In Year 5, IYF continued its M&E activities, organizing three post training evaluations and five focus group discussions. In the last quarter, the focus-group discussions were held online as a Zoom meeting due to the COVID-19 outbreak and the state of emergency. Through the focus groups conducted with life skills and STEM program graduates, the IYF team captured useful insights about the program and the students' experiences (for the Zangar Final M&E Report, [see pg. 20, Annex B](#)).

Capstone program alumni highlighted the usefulness of the life-skills component in the Capstone course. One participant reported that the STEM program helped him to define his career interests and encouraged him to enroll in the university to pursue a career in STEM.

Capstone participants also exemplified the application of STEM competencies acquired:

“At my workplace, I was faced with the necessity to disassemble a quite expensive transformer and I was confident in my ability, thanks to the experience gained in Fab Lab.”

“I worked on projects using coding, and later I could apply the coding skills at my job.”

Some interviewees mentioned the joy of discovering their own potential. One female participant said:

“I was happy to see how the lamp turned on [the result of the task successfully completed] at my first lesson. It meant that the code I wrote was right and I succeeded in that task.”

PTS graduates found the SMART goals setting technique very useful for saving and earning money. One student said:

“I’m sure that I can develop my own business by setting SMART goals.”

PTS participants also found the Managing Strong Emotions lesson very useful and practical. One student reported:

“I started sharing my concerns and emotions with my mom, which was not usual for me at all before the training. I feel relieved now.”

Other school students shared:

“I learned how to manage my emotions and became discreet, which helps me in everyday life.”

Post-secondary students recalled the Job Interview lesson to be helpful. One student mentioned:

“I have never thought that a firm handshake would help me during the interview. I learned many useful things I should know as an applicant.”





The career assessment tools were referred to as practical and helpful:

“I was planning to enter TVET college after 9th grade, but thanks to PTS lessons I decided to finish high school.”

Both Capstone and PTS participants suggested launching the online version of the Zangar STEM and Life Skills programs to engage more young people in Atyrau and Kazakhstan.

Zangar’s Visibility: In Year 5, Zangar increased visibility of the project and the main stakeholders through **20 positive media mentions**, exceeding its target of 15 ([see pg. 15 for a detailed list of Zangar media mentions in Year 5](#) and [pg. 23, Annex C for the full project list](#)). Considerable attention was gained by Fab Lab Atyrau activities and the prototypes that were built by young people. The Fab Lab Atyrau and PTS promotion campaigns launched by IYF in the Fall attracted youth to the trainings and resulted in an increase in Zangar’s social media audience on Instagram; as a result, the number of Zangar social media followers in Instagram reached **2,092 followers this year**.

Leveraged In-Kind Support: Zangar has benefited from in-kind contributions leveraged through partnership. In Year 5, the project received **support valued at over \$23,735**. Given the reduced scale of the project this year and cancelled in-person activities, only 21 volunteer hours were involved in the project’s implementation. ([See pg. 19, Annex A for the Zangar Final Leverage Report.](#))

Preparation of Project Closure: During the last quarter of Year 5, the IYF team focused on project and office closure, and preparation for the liquidation tax audit.

ZANGAR MEDIA MENTIONS

The following table provides details of the cumulative media mentions that occurred in Year 5:

No	Publication	Date	Type
1	<i>Prikaspiyskaya Kommuna</i> local newspaper, " Better than people? or Robot, help! "	23.07.2019	Print and online article
2	<i>Caspian News</i> local TV Channel, " Skillful hands "	01.08.2019	Television
3	<i>Bilimdi El</i> national newspaper, " Big STEM break "	05.08.2019	Online article
4	IYF website, " Young People Tell Us What Education Means to Them & 7 Ways to Improve It "	12.08.2019	Online article
5	<i>Vlast</i> online national magazine, " Skills laboratory "	04.09.2019	Online article
6	IYF website, " On Day of the Girls, Hear from 11 Young Women About the Rights That Matter Most "	11.10.2019	Online article
7	<i>Bilimdi El</i> national newspaper, " Fab Lab Atyrau tour "	16.10.2019	Print and online article
8	<i>Bilimdi El</i> national newspaper, " How to revive a robot "	20.11.2019	Online article
9	<i>Caspian News</i> local TV channel, " STEM weekend " (was streamed live only; no link is available)	17.11.2019	Television
10	<i>Caspian News</i> local TV Channel, " STEM: platform of opportunities "	26.11.2019	Television
11	<i>Moi gorod</i> regional news portal, " Students in Atyrau built a guitar "	12.12.2019	Online article
12	<i>AtyrauOil.official</i> local Instagram public, " Students in Atyrau built a guitar "	12.12.2019	Online article
13	<i>Vremya</i> national newspaper, " Sound, guitar, in three chords "	16.12.2019	Online article
14	Atyrau branch of "Kazakhstan" national TV Channel, "Invented an electro guitar" (link no longer available)	23.12.2019	Television
15	<i>Moi gorod</i> regional news portal, " Atyrau students make furniture "	26.12.2019	Online article
16	<i>Vremya</i> national newspaper, " This is not just a chair "	13.01.2020	Online article
17	<i>Khabar 24</i> national TV channel, " Fab Lab Atyrau has completed over 40 projects in three years "	12.01.2020	Television
18	<i>Vremya</i> national newspaper, " Gypsum souvenir "	06.03.2020	Online article
19	<i>Brooklyn Renaissance Group</i> website, " Second STEM and Art Festival takes place in Atyrau " (was discovered and reported in Year 5 Quarter 3 quarterly program report)	18.05.2017	Online article
20	<i>Prikaspiyskaya kommuna</i> local newspaper, "Programming team"	15.05.2020	Print article





LESSONS LEARNED

In Year 5, the IYF team captured the following lessons learned:

Understand Youth Recruitment: In Year 5, Quarter 2, the PTS promotion campaign, which included advertising in social media, resulted in limited outcomes. We learned that recruiting through social media required consistent outreach to those who registered (i.e. parents and young people) since they tended to forget about signing up for the course or changed their mind about attending. We also learned that it was hard to recruit young people for the training when the trainer was from outside their organization or was someone with whom they were not familiar. Recognizing these issues, in the next quarter, IYF launched PTS at several champion organizations where PTS classes were delivered by trainers from the respective organizations.

Remain Agile to External Changes: As a result of the pandemic and related restrictions to in-person gatherings, IYF found it necessary to adapt activities quickly to virtual formats. IYF responded to the Covid-19 outbreak by redesigning light-touch STEM activities into a virtual format, filming video lessons for APEC students enrolled in the APEC-Fab Lab Atyrau integrated course, developing a new “Python basics” online course for programming, and capturing M&E data through virtual focus groups. By being open to alternative ways to deliver programming, staying current with online platforms, and engaging trainers and students, Zangar was able to adapt quickly to the changing environment and create a new normal. We learned that content and teaching approaches should be flexible, transferrable, and evaluated from time to time to respond quickly and effectively to external environment changes.

Reassess Prior Decisions and Pivot: In the last quarter of the project, IYF decided to revisit the initial sustainability plan for Fab Lab Atyrau. The IYF team reassessed the benefits and risks of keeping all the Fab Lab Atyrau equipment at APEC and decided to instead pivot the plan and redistribute

the equipment among two organizations to ensure the accessibility of these resources by the Atyrau community. The decision was prompted by the passive involvement of the college administration in sustaining the Fab Lab Atyrau as the STEM space open for the community.

Build Capacity of Trainers and Nurture Relationships: Throughout the Zangar initiative, there has been a strong investment in people, and human capital has become a critical element in the project's sustainability. Zangar built a community of dedicated trainers and fellows who are now keeping the Zangar legacy alive. Many trainers are working with the IYF team to keep PTS and STEM programs at their local organizations. Likewise, the social and youth development projects launched in Atyrau region in the last two years (Samgau, i-SEED, "Atameken" chamber of entrepreneurs) have reached out to the dedicated pool of local trainers to enhance skills in delivering life skills and STEM trainings. In addition, Zangar STEM fellows have reached out to IYF to learn when the Fab Lab will reopen—understanding that the Fab Lab will close but that the AYC STEM Lab will carry the torch and continue to offer young people a safe place to deepen their skillsets and creativity in STEM, makes them happy.

ZANGAR



ANNEXES



ANNEX A: FINAL LEVERAGE REPORT

Zangar has benefitted from important local partnerships that have provided in-kind contributions to the project, **valued at \$325,885**. In Year 5, Zangar received in-kind contributions valued at **USD \$23,735**.

Over the five-year program, **71 organizations** provided in-kind contributions to the program.

The majority of this in-kind leverage comes from the education sector. Atyrau University and APEC PetroTechnic college (APEC) provided physical space, utilities, and related services to allow the **Fab Lab Atyrau** to operate on their campuses. In addition, other local education organizations provided space for Zangar Life Skills and STEM trainings and events.

- 19 public, government, and business organizations provided space, equipment, and materials for Zangar activities.

In Year 5, **10 organizations** provided in-kind contributions to program implementation.

- As stated above, the majority of in-kind contributions for Year 5 come from local education institutions of all levels—secondary schools, TVET colleges, and higher education organizations provided space for implementation of PTS and STEM programs.
- Zangar also benefitted from local businesses providing equipment and material (plywood) for STEM activities.

One of the largest contributions made to Zangar is from committed volunteers and a multitude of stakeholders, who have together logged **8,022 hours of time** on the project. Given the reduced scale of the project in Year 5 and cancelled in-person activities, only **21 volunteering hours** were involved in the project's implementation from June 2019.

IYF is grateful to its partner organizations for their commitment and generosity. The resources and contributions—of all kinds—have proved to be of great importance for ensuring young people have access to and can benefit from Zangar's youth programs. Our partner organizations' support has also guaranteed the sustainability of the Atyrau Youth Development Initiative.

ANNEX B: FINAL M&E REPORT

Zangar Final M&E Report (June 2015 - July 2020)

OUTCOME	INDICATOR	DEFINITION	TARGET Y1 & Y2	ACTUAL Y1 & Y2	TARGET Y3	ACTUAL Y3	TARGET Y4	ACTUAL Y4	Y5 Q1 Jul-Sep 2019	Y5 Q2 Oct-Dec 2019	Y5 Q3 Jan-Mar 2020	Y5 Q4 Apr-Jun 2020	TARGET Y5	ACTUAL Y5	TOTAL ACTUAL (this number reported to Chevron quarterly)	COMMENTS
Objective 1. Strengthen a self-sustained environment to support youth learning and professional skill-building																
1.1 By the end of Year 5 of the project, youth serving organizations (YSOs) have the capacity to deliver employability skills programming beyond Zangar																
Training on life skills programming and/or STEM literacy conducted for professionals from local YSOs	1. # of local teachers/administrators/trainers with improved knowledge and skills in delivering life skills training	A count of the number of unique staff in local organizations who have successfully completed a Training of Trainers workshop, Training of Master Trainers and Training of Coaches to become a trainer, master trainer or coach in the Passport to Success program.	62	74	60	68	0	0	0	0	0	0	10	0	142	Y1 Q2: PTS TOT Y1 Q3: no new TOTs Y1 Q4: no new TOTs Y2 Q1: 2 PPTS TOTs Y2 Q2: no new TOTs Y2 Q3: no new TOTs Y2 Q4: no new TOTs Y3 Q1: TOMT, TOT Y3 Q2: Training of Coaches (Aug 16 - 15), TOT (27) Y3 Q3: no new TOTs Y3 Q4: no new TOTs Y4 Q1: no new TOTs
	2. # local teachers/trainers/YSOs staff trained in delivering STEM activities	A service count of staff in local organizations who have attended at least one day of STEM training, disaggregated by the type of training and type of organization from which the organizations reps come.	150	213	12	43	0	0	0	0	4	0	4	4	4	260
Champion organizations (including schools) integrate Zangar's programs (PTS and/or STEM) into their curricula by the end of Year 5 of the project	3. # educational organizations that have incorporated a Zangar life skills and/or STEM literacy program into their annual academic curricula	A count of the number of organizations who meet at least one of the following criteria for sustainability of a Zangar activity: (a) sign a MOU with a Zangar partner committing to continue the activity during the next academic year; (b) provide evidence (official institutional document endorsed by organizational leadership) of a plan to continue the activity; (c) offer the activity during Zangar Y5 without funding from a Zangar partner; (d) sign a PTS License Agreement.	n/a	0	n/a	10	1	2	1	0	3	5	6	7	Y4 Q4: Zangar STEM Courses incorporated into APEC educational program Y5 Q1: Zangar STEM Courses incorporated into educational programs of Secondary schools #19 and #35 Y5 Q2: Zangar STEM Courses incorporated into educational program of Alraya Industrial College Y5 Q3: STEM University of Oil and Gas, Ayya College of Business and Law and School #34 signed the PTS License Agreements	
1.2 Increased visibility of on-going youth development programming beyond Zangar																
Public events and program campaigns held to transfer learning and/or build stakeholders awareness	4. # public events, community roundtables and campaigns	A count of the number of unique events hosted by HYF or its partners for learning transfer and/or building awareness of external stakeholders	12	32	8	17	7	22	2	3	3	10	11	11	82	Y1 Q2: STEM Ecosystem Design Studio Y1 Q3: PPTS graduation (round 1) Y1 Q4: PPTS graduation (round 2), Robotics/Capstone exhibition Y2 Q1: PPTS graduation (summer), PPTS Orientation Mtg w/ Ed. Inst. Admins, Rptg Youth Forum, Pro. Development Seminar for District Youth Resource Centers Y2 Q2: STEM Eng Fest, PPTS graduation, STEM Family Activity, Prof. Orientation Wkshp, BE graduation, STEM training @ Cruxus Youth Business Forum Y2 Q3: Prof. Orientation Wkshp, Mtgs w/ School Admins, STEM Family Activities x3, PPTS grad., FL launch Y2 Q4: STEM Family Activity w/ STEM Fest, PPTS graduation Y2R3, STEM Hackathon, TCO Kids Day, Fab Lab Tour, BE graduation Y2R2, SB graduation Y3 Q1: PPTS Summer Round Grad (Jul 5), BE Summer Camp Grad (Aug 26) Y3 Q2: BE STEM Conference, 2 STEM Isak, FL tour for APEC students, Hour of Code Y3 Q3: PPTS graduation, PPTS mini-grad, STEM Hackathon, 2 Fab Lab Tours, Guest lecture Y3 Q4: 2 STEM Festivals, PPTS graduation, Workshop on Blog Writing Y4 Q1: Capstone exhibition, PPTS Summer Round graduation, KerneGo Y4 Q2: 4 Hour of Code Y4 Q3: PPTS Grad., PPTS open lesson, 2 STEM Isak, 5 FL tours Y4 Q4: STEM Fest, PPTS Grad, 5 FL tours, Capstone exhibition Y5 Q1: Fab Lab Summer School Grad, Fab Lab tour Y5 Q2: 2 STEM Isak, FL tour Y5 Q3: STEM Isak, 2 PPTS Grad Y5 Q4: 3 virtual STEM Isak
Positive media mentions for program activities & events	5. # positive mentions of program in media	A count of the number of media clippings, TV mentions, or other media outlets at the local, regional, or national level that discuss the program in a positive manner	35	103	50	51	50	58	5	10	4	1	15	20	232	See media clippings log
1.3 Fab Lab Atyrau integrated into APEC's infrastructure and academic curricula																
Fab Lab Atyrau integrated into APEC's infrastructure	6. Fab Lab Atyrau becomes an organizational unit of APEC	APEC provides evidence (official institutional document endorsed by organizational leadership) of incorporating the Fab Lab Atyrau into college's organizational structure				N/A							Qualitative indicator			Y4 Q4: Relocation of Fab Lab Atyrau to APEC facilities Y5 Q2: Distribution of Fab Lab Atyrau equipment between Atyrau Youth Center's STEM Lab and APEC. The equipment remained at APEC: 1 large CNC milling machine, 1 laser cutters, 3 laptops, 3 monitors, and additional supplies.
Fab Lab Atyrau integrated into APEC's academic curricula	7. APEC incorporated a Fab Lab Atyrau literacy program into their academic curricula	APEC provides evidence (official institutional document endorsed by organizational leadership) of a plan to continue the Fab Lab Atyrau courses to meet criteria for sustainability of a Zangar activity				N/A							Qualitative indicator			Y4 Q4: Zangar STEM Courses incorporated into APEC educational program (Metalwork Internship) Y5 Q1: Zangar STEM Courses incorporated into APEC educational program (Computer Drawing and Basics of Electro-echmoic courses) Y5 Q2: Zangar STEM Courses resumed in March as a part of APEC courses on Graphic Drawing. HYF held TOT for APEC staff on Fab Lab software and equipment in January Y5 Q4: HYF prepared and filmed 13 video lessons on Graphic Drawing for APEC students
Objective 2. To equip youth with life skills and STEM education																
2.1 Youth demonstrably improve life skills																
	8. # youth enrolled in life skills trainings	# unique youth who complete at least three days of life skills training	2000	2582	1100	1104	1100	1153	44	26	84	0	100	154	4993	Y1 Q2: PPTS Round 1 Y1 Q3: PPTS Round 2 Y1 Q4: Summer sessions Y2 Q1: Y2 Round 1 Y2 Q2: Y2 Round 2 Y2 Q3: Y2 Round 3 Y2 Q4: Y2 Round 4 Y3 Q1: Y3 Round 1 Y3 Q2: Y3 Round 2 Y3 Q3: Y3 Round 3 Y3 Q4: Y3 Round 4 Y4 Q1: Y4 Round 1 Y4 Q2: Y4 Round 2 Y4 Q3: Y4 Round 3 Y4 Q4: Y4 Round 4 Y5 Q1: Y5 Round 1 Y5 Q2: Y5 Round 2 Y5 Q3: Y5 Round 3 Y5 Q4: Y5 Round 4 Y5 Q5: Y5 Round 5 Y5 Q6: Y5 Round 6 Y5 Q7: Y5 Round 7 Y5 Q8: Y5 Round 8 Y5 Q9: Y5 Round 9 Y5 Q10: Y5 Round 10 Y5 Q11: Y5 Round 11 Y5 Q12: Y5 Round 12 Y5 Q13: Y5 Round 13 Y5 Q14: Y5 Round 14 Y5 Q15: Y5 Round 15 Y5 Q16: Y5 Round 16 Y5 Q17: Y5 Round 17 Y5 Q18: Y5 Round 18 Y5 Q19: Y5 Round 19 Y5 Q20: Y5 Round 20 Y5 Q21: Y5 Round 21 Y5 Q22: Y5 Round 22 Y5 Q23: Y5 Round 23 Y5 Q24: Y5 Round 24 Y5 Q25: Y5 Round 25 Y5 Q26: Y5 Round 26 Y5 Q27: Y5 Round 27 Y5 Q28: Y5 Round 28 Y5 Q29: Y5 Round 29 Y5 Q30: Y5 Round 30 Y5 Q31: Y5 Round 31 Y5 Q32: Y5 Round 32 Y5 Q33: Y5 Round 33 Y5 Q34: Y5 Round 34 Y5 Q35: Y5 Round 35 Y5 Q36: Y5 Round 36 Y5 Q37: Y5 Round 37 Y5 Q38: Y5 Round 38 Y5 Q39: Y5 Round 39 Y5 Q40: Y5 Round 40 Y5 Q41: Y5 Round 41 Y5 Q42: Y5 Round 42 Y5 Q43: Y5 Round 43 Y5 Q44: Y5 Round 44 Y5 Q45: Y5 Round 45 Y5 Q46: Y5 Round 46 Y5 Q47: Y5 Round 47 Y5 Q48: Y5 Round 48 Y5 Q49: Y5 Round 49 Y5 Q50: Y5 Round 50 Y5 Q51: Y5 Round 51 Y5 Q52: Y5 Round 52 Y5 Q53: Y5 Round 53 Y5 Q54: Y5 Round 54 Y5 Q55: Y5 Round 55 Y5 Q56: Y5 Round 56 Y5 Q57: Y5 Round 57 Y5 Q58: Y5 Round 58 Y5 Q59: Y5 Round 59 Y5 Q60: Y5 Round 60 Y5 Q61: Y5 Round 61 Y5 Q62: Y5 Round 62 Y5 Q63: Y5 Round 63 Y5 Q64: Y5 Round 64 Y5 Q65: Y5 Round 65 Y5 Q66: Y5 Round 66 Y5 Q67: Y5 Round 67 Y5 Q68: Y5 Round 68 Y5 Q69: Y5 Round 69 Y5 Q70: Y5 Round 70 Y5 Q71: Y5 Round 71 Y5 Q72: Y5 Round 72 Y5 Q73: Y5 Round 73 Y5 Q74: Y5 Round 74 Y5 Q75: Y5 Round 75 Y5 Q76: Y5 Round 76 Y5 Q77: Y5 Round 77 Y5 Q78: Y5 Round 78 Y5 Q79: Y5 Round 79 Y5 Q80: Y5 Round 80 Y5 Q81: Y5 Round 81 Y5 Q82: Y5 Round 82 Y5 Q83: Y5 Round 83 Y5 Q84: Y5 Round 84 Y5 Q85: Y5 Round 85 Y5 Q86: Y5 Round 86 Y5 Q87: Y5 Round 87 Y5 Q88: Y5 Round 88 Y5 Q89: Y5 Round 89 Y5 Q90: Y5 Round 90 Y5 Q91: Y5 Round 91 Y5 Q92: Y5 Round 92 Y5 Q93: Y5 Round 93 Y5 Q94: Y5 Round 94 Y5 Q95: Y5 Round 95 Y5 Q96: Y5 Round 96 Y5 Q97: Y5 Round 97 Y5 Q98: Y5 Round 98 Y5 Q99: Y5 Round 99 Y5 Q100: Y5 Round 100

ANNEX B: FINAL M&E REPORT

OUTCOME	INDICATOR	DEFINITION	TARGET Y1 & Y2	ACTUAL Y1 & Y2	TARGET Y3	ACTUAL Y3	TARGET Y4	ACTUAL Y4	Y5 Q1 Jul-Sep 2019	Y5 Q2 Oct-Dec 2019	Y5 Q3 Jan-Mar 2020	Y5 Q4 Apr-Jun 2020	TARGET Y5	ACTUAL Y5	TOTAL ACTUAL (this number reported to Chevron quarterly)	COMMENTS
PTS trainings conducted for youth	9. Youth satisfied with the life skills training program (qualitative indicator)	A qualitative assessment of youth satisfaction on the life skills training administered on a sample basis.							Qualitative indicator							<ul style="list-style-type: none"> V1.Q1: Per 3 focus groups held with a sample of PTS Round 1 participants. See report narrative. V2.Q1: Per 3 focus groups held with a sample of PTS Year 2 Round 1&2 participants. See report narrative. V3.Q1: Per 3 focus groups held with a sample of PTS Year 3 Round 1 graduates. See report narrative. V4.Q1: 2 focus groups held with a sample of PTS Year 3 Round 2 graduates. See report narrative. V5.Q1: 1 focus group held with a sample of PTS Summer Round graduates. See report narrative. V6.Q1: 1 focus group held with a sample of PTS Year 4 Round 1 graduates. See report narrative. V7.Q1: 1 focus group held with a sample of PTS Year 4 Round 1 graduates. See report narrative. V8.Q1: 3 focus groups held with a sample of PTS Year 4 Round 2 graduates. See report narrative. V9.Q1: 2 focus groups held with a sample of PTS Year 5 Round 1 graduates. See report narrative. V10.Q1: 1 virtual focus group held with a sample of PTS Year 5 Round 2 participants. See report narrative.
Youth demonstrates improvement in life skills competencies	10. % youth who show improvement in the skills competencies (out of those who complete the training)	The percentage of youth who report a 10% positive overall change in key life skills competencies as self-reported in the PTS retrospective survey, divided by the number of youth taking the survey; survey to be distributed on a sample basis.	80%	82%	80%	83%	80%	83%			76%		80%	76%	82%	<ul style="list-style-type: none"> V1.Q2: PTS Round 1 participants' results V2.Q2: PTS Year 2 summer participants' results V3.Q2: PTS Year 2 Round 2 participants' results V4.Q2: PTS Year 2 Round 3 participants' results V5.Q2: PTS Year 2 summer participants' results V6.Q2: PTS Year 3 Round 1 participants' results V7.Q2: PTS Year 3 Round 2 participants' results V8.Q2: PTS Year 3 Round 3 participants' results (12 organizations) V9.Q2: PTS Year 4 Round 1 participants' results (17 organizations) V10.Q2: PTS Year 4 Round 2 participants' results V11.Q2: PTS Year 4 Round 1 participants' results (2 organizations)
2.2 Youth improve knowledge and skills on STEM areas																
Continuous STEM trainings conducted at YSDs	11. # youth enrolled in continuous STEM programs	A count of the number of unique youth who complete at least three days of any continuous STEM training, disaggregated by the training type, i.e. Capstone Clubs, Rapid prototyping courses.	420	962	816	867	670	769	42	172	175	10	250	399	2927	<ul style="list-style-type: none"> Y1.Q2: STEM Intro week, Oct.; ASU Arduino-Capstone group V1.Q2: Capstone clubs, 1 Chevron plant visit, Robotics club V2.Q2: 1 Robotics workshop, 1 SeaPerch demonstration, 1 Capstone Introduction, 1 EA TOT V3.Q2: 1 Capstone V4.Q2: 1 Capstone in FL, STEM Fest, STEM Family Night, Enactus Forum, Professional Orientation Workshop V5.Q2: Robotics Training, BE engineering training V6.Q2: 5 Capstone, 3 STEM Family Activities, 1 Prof. Orientation, 1 Technovation, 2 FL tours, 1 FL training for KIPP University participants, 1 FL self study group, 3 SR Robotics Training, 18 BE engineering training V7.Q2: Capstone, Fab Lab Tour, STEM Family Activity 5-8, STEM Hackathon, STEAM Fest, TCO Kids Day, 3 Rapid Prototyping, BE Spring Camp V8.Q2: Rapid Prototyping, BE Summer Camp, BE Curriculum V9.Q2: Rapid Prototyping, BE Curriculum, Zangar Robotics Clubs, Capstone, FL course for AU students, FL Open Hours V10.Q2: BE Spring Camp, Kame Go, Capstone clubs including Integrated LS, Rapid Prototyping V11.Q2: BE Curriculum, Zangar Robotics Clubs launched in October V12.Q2: BE Winter Camp, BE Curriculum, Zangar Robotics Clubs, Capstone-LS V13.Q2: Capstone-LS, Rapid Prototyping, Metalwork internship for APEC students, STEM Summer School V14.Q2: Capstone-LS, Rapid Prototyping V15.Q2: Robotics FL, Robotics (Industrial School) V16.Q2: Python (virtual programming course)
	12. Youth satisfied with STEM training program (qualitative indicator)	A qualitative assessment of youth satisfaction on continuous STEM training, administered on a sample basis.							Qualitative indicator							<ul style="list-style-type: none"> V1.Q3: 2 Capstone focus groups. See report narrative. V2.Q3: Robotics and Bolshak Engineering focus groups. See report narrative. V3.Q3: Bolshak Engineering focus groups. See report narrative. V4.Q3: Bolshak Engineering focus groups. Key findings are included in the report. V5.Q3: Robotics and Bolshak Engineering focus groups. See report narrative. V6.Q3: Robotics and Bolshak Engineering focus groups. See report narrative. V7.Q3: 1 focus group held with a sample of Capstone graduates. See report narrative. V8.Q3: 1 virtual focus group held with a sample of Capstone graduates. See report narrative.
Youth with increased demonstrated STEM competency	13. % youth demonstrating increase in STEM competency	A percentage of youth participating in continuous STEM programs, who demonstrate STEM awareness and self-efficacy by reporting positive change in a majority of dimensions assessed in the STEM exit survey, administered on a sample basis.	70%	87%	70%	90%	70%	73%		87%	93%		70%	87%	82%	<ul style="list-style-type: none"> V1.Q4: Capstone focus group participants report building skills in multiple areas as a result of participation. V2.Q4: Capstone exit surveys V3.Q4: BE exit surveys V4.Q4: BE & Robotics exit surveys V5.Q4: BE & Robotics exit surveys V6.Q4: Capstone exit survey V7.Q4: BE & Robotics exit survey V8.Q4: Rapid prototyping exit survey V9.Q4: Robotics FL exit survey Y2.Q4: BE & SR exit surveys
STEM light-touch public activities reaching youth	14. # youth participated in STEM light-touch activities	A count of the number of unique youth participating in STEM light-touch activities, disaggregated by the type of activity, i.e. STEM Islek, Fab Lab tours, Capstone Exhibition, etc.	780	1632	1135	1365	1100	1063	7	16	9	6	100	38	3488	<ul style="list-style-type: none"> V1.Q3: STEM Intro week, Oct.; ASU Arduino-Capstone group V2.Q3: 1 Chevron plant visit V3.Q3: 9 EA, 1 Robotics workshop, 1 SeaPerch demonstration, 1 Capstone Introduction V4.Q3: STEM Fest, STEM Family Night, Enactus Forum, Professional Orientation Workshop V5.Q3: 3 STEM Family Activities, 1 Prof. Orientation, 2 FL tours V6.Q3: 1 Fab Lab Tour, 4 STEM Family Activity, 1 STEM Hackathon, 1 STEAM Fest, 1 TCO Kids Day V7.Q3: 1L session for Design Thinking Study participants V8.Q3: FL Tour, 2 STEM Islek, Hour of Code V9.Q3: STEM Hackathon, 2 Fab Lab Tours, Guest lecture V10.Q3: 2 STEAM Festivals, based on # of merchandise products distributed V11.Q3: Hour of Code V12.Q3: Hour of Code, 2 STEM Islek, 5 FL tours V13.Q3: STEAM Fest, 5 FL tours V14.Q3: FL tour V15.Q3: 2 STEM Islek, FL tour V16.Q3: STEM Islek V17.Q3: 3 virtual STEM Islek
2.3 Youth utilize skills from Zangar training																
Youth-led community projects implemented	15. # community service opportunities implemented	A count of the number of group service-learning projects through PTS that complete the activities in their implementation plans	100	133	40	45	40	46	0	0	0	0	3	0	225	<ul style="list-style-type: none"> V1.Q3: PTS Round 1 V2.Q3: PTS Round 2 V3.Q3: Summer session V4.Q3: PTS Year 2 Round 1 V5.Q3: PTS Year 2 Round 2 V6.Q3: PTS Year 2 Round 3 & Summer Round V7.Q3: PTS Year 3 Round 1 (11 organizations) V8.Q3: PTS Year 3 Round 2 (20 organizations) V9.Q3: PTS Year 3 Round 3 (no lessons on community service learning no projected implemented) V10.Q3: PTS Year 4 Round 1 (12 organizations) V11.Q3: PTS Year 4 Round 1 (7 organizations) V12.Q3: PTS Year 4 Round 2 (17 organizations) Y3.Q3: PTS Year 3

ANNEX B: FINAL M&E REPORT

OUTCOME	INDICATOR	DEFINITION	TARGET Y1 & Y2	ACTUAL Y1 & Y2	TARGET Y3	ACTUAL Y3	TARGET Y4	ACTUAL Y4	Y5 Q1 Jul-Sep 2019	Y5 Q2 Oct-Dec 2019	Y5 Q3 Jan-Mar 2020	Y5 Q4 Apr-Jun 2020	TARGET Y5	ACTUAL Y5	TOTAL ACTUAL (this number reported to Chevron quarterly)	COMMENTS
Youth-led STEM projects implemented	16. # complete youth-led STEM projects	A count of the number of group-STEM solutions (prototypes built) as the result of group projects through Project Based Learning		n/a	40	55	40	25	0	3	3	0	10	6	86	See STEM projects tracker
Chevron-specific indicators																
	1. Number of female (among direct project beneficiaries)	Count of unique female youth who have participated in life skills OR STEM activities		2255	n/a	1145		979	36	99	51	5		191	4571	Total unique youth: 10553
	2. Number of people under the age of 18	Count of unique individuals who were under the age of 18 at the time of their first participation in a Zangar activity		3620	n/a	2048		2088	79	169	228	11		487	8243	Note: Does not include the approximately 5% of beneficiaries who do not provide their age. Y5 Q4: Does not include the approximately 50% of STEAM Fest participants who do not provide their age.
	6. Number of partner organizations leveraged for in-kind contributions	Count of unique organizations (not individuals) who provide in-kind contributions		60	n/a	7		4	0	0	0	0		0	71	Note: Shanayrau Y1 Q3: LLP PolkFasad, Kurmangazy cultural palace Y2 Q4: ArBabul, Ayray Regional History Museum, Ayray Civil Center, Ayray Resource Center, APEC Y3 Q1: Hestofark Y4 Q2: American Corner Ayray Y5 Q3: Smertains LLP Y6 Q4: Art Lab LLP

ANNEX C: FINAL MEDIA MENTIONS (JUNE 2015 – JUNE 2020)

Clipping No.	Name of Clipping	Name of Publication	Date of Publication	Circulation/views /followers	Type	Link/Source
Y1 Q1						
1	"Passport to Success"	Atyrau	11/10/2015		Print article	atr.kz
2	"Do you already have a Passport to Success"	Zhas Atyrau	11/23/2015		Online article	zhasatyrau.kz
3	"Passport to Success"	Information agency www.atpress.kz	11/11/2016		Online article	http://atpress.kz/news?page=16
4	"Passport to Success"	Munaily Astana	11/19/2015		Online article	m-astana.kz
5	"Passport to Success lessons"	Atyrau State University website	11/10/2015		Online article	atgu-edu.kz
6	"Way that leads to Income"	Atyrau branch of "Kazakhstan" National TV Channel	1/15/2016		Television	
7	"Passport to Success- become the master of your life"	Prikaspiyskaya Kommuna	1/20/2016		Print article	pricom.kz
8	"The Youth has got "Passport to Success"	Akzhaiyk	3/1/2016		Online article	http://azh.kz/ru/news/view/34818
9	"Passport to Success"	Atyrau branch of "Kazakhstan" National TV Channel	3/31/2016		Television	http://atyravt.kz/ru/news/society/pasport-k-uspehu
10	"Graduates of Passport to Success"	Zhas Atyrau	3/2/2016		Online article	http://zhasatyrau.kz/news/vyipusniki-pasport-k-uspehu.html
11	"How to ask a day off from your boss?"	Prikaspiyskaya Kommuna	2/26/2016		Online article	http://pricom.kz/?p=49411
12	"The youth to new heights"	Atyrau State University website	2/26/2016		Online article	http://atgu.kz/ru/news/molodezh-k-novym-vershinam
13	"Passport to Success" is being implemented in Atyrau	Kazinform national information agency	3/1/2016		Online article	http://www.inform.kz/kaz/article/2876298
14	"Passport to success"	Atyrau	5/28/2016		Print article	atr.kz
15	"Zangar" project is driving Atyrau youth to success"	Munaily Astana	5/27/2016		Print article	http://m-astana.kz/article/view?id=3493
16	PTS Graduates 2.0	Zhas Atyrau	6/1/2016		Online article	http://zhasatyrau.kz/photo/vypusniki-pku-2.0.html
17	"Youth reaching new heights"	Atyrau branch of "Kazakhstan" National TV Channel	5/24/2016		Television	In Russian: http://atyravt.kz/ru/news/society/novye-vysoty In Kazakh: http://atyravt.kz/kz/news/society/zhashtar-zhana-shyndarga
18	"Passport to Success"	Atyrau Polytechnic College website	5/22/2016		Online article	In Kazakh: http://apolitcol.kz/kk/news/tabyska-zhetkizetin-tolkuzhat In Russian: http://apolitcol.kz/ru/news/pasport-uspeha
19	"Passport to Success"	Nazarbayev Intellectual School YouTube channel	5/11/2016		Other	https://www.youtube.com/watch?v=ioxmV5hBgc
20	"Summer is not for idleness"	Prikaspiyskaya Kommuna	7/23/2016		Online article	http://pricom.kz/?p=58475
21	Zangar project	Atyrau Institute of Oil and Gas website	9/19/2016		Online article	http://www.ainig.kz/index.php/kz/basty/19-kazakhskij/novosti/1868-za-ar-zhobasy
22	"Actions of Youth: Ideas and Perspectives"	Prikaspiyskaya Kommuna	8/3/2016		Online article	http://pricom.kz/?p=59935
23	"Let's talk about important stuff"	Atyrau branch of "Kazakhstan" National TV Channel	6/27/2016		Television	The video is not on the website yet
24	"Holders of Success"	Prikaspiyskaya Kommuna	6/21/2016		Online article	http://pricom.kz/?p=51652
TOTAL:	24					
Y2 Q2						
25	"Zangar" project - Developing Life Skills in Youth"	Atyrau State University website	10/7/2016		Online article	http://www.atgu.kz/kz/news/zhasardyn-omirlik-dagdylaryn-damytu-zangar-zhobasynda
26	"3D models, robots and all that"	Akzhaiyk	11/10/2016		Online article	http://azh.kz/ru/news/view/40347
27	"Atyrau pupils got the basics of STEM Education"	Zhas Atyrau	11/11/2016		Online article	http://zhasatyrau.kz/news/atyrauskie-sholniki-poluchili-osnyy-stem-obrazovanie.html
28	"First time in Atyrau. English and STEM Festival"	Atyrau State University website	11/15/2016		Online announcement	http://www.atgu.kz/kz/news/atyrauda-algash-ret-stem-bilim-beru-zhne-agylshyn-tili-festivali

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29	"First English and STEM Festival was held in Atyrau University	Atyrau State University website	11/21/2016		Online article	http://www.atgu.kz/kz/news/halel-dosmuhamedov-atyndagy-atoryau-memlekettik-universitetinde-stem-bilim-beru-zhne-agylshyn
30	"STEM Family Night"	Zhas Atyrau	11/24/2016		Online announcement	http://zhasatyrau.kz/events/stem-family-night.html
31	"Over 600 youth have actively participated in English & STEM Fest in Atyrau"	Komsomolskaya Pravda	11/25/2016		Print and online article	http://www.kp.kz/society/13381-v-atoryau-bolee-600-molodykh-lyudej-prinyali-uchastie-v-festivale-anglijskogo-vazyka-i-stem-obrazovaniya
32	"Passport to Success"	Zhas Atyrau	11/26/2016		Online article	http://zhasatyrau.kz/news/tabyska-zheteleitintolkuzhat.html
33	"New academic year - a new addition to the ranks of the Atyrau youth ready for success"	Atyrau State University website	11/29/2016		Online article	http://www.atgu.kz/ru/news/novyy-uchebnyy-god-novoe-popolnenie-v-ryadah-atoryauskoy-molodezhi-gotovov-k-uspehu
34	"Da Vinci's Bridge and other wonders"	Akzhaiyk	12/1/2016		Online article	http://azh.kz/ru/news/view/40872
35	"Atyrau English, STEM Fest Draws More Than 600 Young Participants"	The Astana Times	12/10/2016		Print and online article	http://astanatimes.com/2016/12/atoryau-english-stem-fest-draws-more-than-600-young-participants/
36	"STEM - old, new, the newest"	Prikaspiyskaya Kommuna	12/12/2016		Online article	http://pricom.kz/?p=62633
37	"What Communities in Kazakhstan Can Learn from Robot Battles"	IYF website	12/13/2016		Online blog	http://www.iyfnet.org/blog/what-communities-kazakhstan-can-learn-robot-battles
38	"Learn about Shakespeare's language and create a robot"	Bilimdi El	12/13/2016		Print article	Bilimdi El. №23(60), December 13, 2016. p. 32 https://www.dropbox.com/s/6vxcg69xckp1nvq/STEM%20Fest_Bilimdi%20El_13.12.16.docx?dl=0
TOTAL:	14					
Y2 Q3						
39	Education of new generation	Bilimdi El	1/16/2017		Online article	http://bilimdinews.kz/index.php/item/2805-obrazovanie-novogo-pokoleniya
40	For This STEM Student in Kazakhstan, Clean Energy from the Moon Isn't Sci-Fi	IYF website	1/24/2017		Online blog	http://www.iyfnet.org/blog/stem-student-kazakhstan-clean-energy-moon-isnt-sci-fi
41	With sweet gifts	Akimat's website	1/28/2017		Online article	http://atoryau.gov.kz/news/read/Sladkij_syurpriz_v_Centre_obslyzhvaniya_naseleniya.html
42	January, 31. Fab Lab Atyrau official opening	Atyrau2go.kz	1/28/2017		Online announcement	http://atoryau2go.kz/archives/280
43	The first Fabrication Laboratory is to be opened	Atyrau State University website	1/30/2017		Online announcement	http://www.atgu.kz/kz/news/kazakstandagy-algashky-fab-lab-ciflyk-ondiris-zerthanasy-ashyluda
44	The first Fabrication Laboratory has been opened in Atyrau	Atyrau branch of "Kazakhstan" National TV Channel	1/31/2017		Television	http://atoryautv.kz/ru/news/society/pervaya-laboratoriya-cifrovogo-proizvodstva-otkrylas-v-atoryau
45	The Fabrication Laboratory has been opened	ATPress	1/31/2017		Online article	http://atpress.kz/kz/news/atvirauda-sandyk-endiristik-zertxana-ashyldy/-video.html
46	The first Fabrication Laboratory has been opened in Kazakhstan	Akimat's website	2/1/2017		Online article	http://atoryau.gov.kz/news/read/Pervaya_laboratoriya_cifrovogo_proizvodstva_Fab_Lab_otkrylas_v_Kazahstane.html?lang=ru
47	About unusual wood cutting and an alternative to Wi-Fi	Prikaspiyskaya Kommuna	2/1/2017		Print and online article	http://pricom.kz/?p=63850
48	A Fabrication Laboratory has been opened in Atyrau	Zhas Atyrau	2/1/2017		Online article	http://zhasatyrau.kz/news/atoryauda-fab-lab-ciflyk-ondiris-zertxanas-ashyldy.html
49	A Fabrication Laboratory has been launched in Atyrau	Ratel.kz	2/1/2017		Online article	http://www.ratel.kz/kaz/laboratoriju_tsifrovogo_proizvodstva_zapustili_v_atoryau
50	Laboratory for young inventors has been opened in Atyrau	ianews.kz	2/1/2017		Online article	http://ianews.kz/laboratoriyu-dlya-yunyx-izobretatelej-otkryli-v-atoryau/
51	The opening of the «Fab Lab» laboratory	Atyrau State University website	2/2/2017		Online article	http://www.atgu.kz/ru/news/sostoyalos-otkrytie-laboratorii-fab-lab
52	The first Fabrication Laboratory has been opened in Kazakhstan	Kursiv.kz	2/3/2017		Online article	http://www.kursiv.kz/news/obshchestvo/v-kazahstane-otkrylas-pervaya-laboratoriya-cifrovogo-proizvodstva-fab-lab/

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53	"Smart machines" mill wood	Atyrau	2/4/2017		Print and online article	http://atr.kz/?p=19071
54	Fab Lab has been opened in Atyrau	Turkic-speaking journalists Fund	2/5/2017		Online article	KAZ: http://ttjk.kz/2017/02/05/1436/ RUS: http://ttjk.kz/2017/02/05/v-atoryau-otkrylysa-fab-lab/
55	The first Fabrication Laboratory has been opened in Kazakhstan	Profit.kz	2/6/2017		Online article	http://profit.kz/news/36954/V-Kazahstane-otkrilas-pervaya-laboratoriya-cifrovogo-proizvodstva-Fab-Lab/
56	The first Fabrication Laboratory has been opened in Kazakhstan	Yvision.kz	2/6/2017		Online article	http://yvision.kz/post/754254
57	The first fabrication laboratory in Kazakhstan Fab Lab Atyrau is available to Atyrau youth	Delovoi Kazakhstan	2/7/2017		Online article	http://dknews.kz/pervaya-v-kazahstane-laboratoriya-tsifrovogo-proizvodstva-fab-lab-atoryau-dostupna-dlya-molodezhi-aty-rau/
58	The fabrication laboratory has been opened	Aikyn	2/7/2017		Online article	https://aikyn.kz/2017/02/07/3065.html
59	The fabrication laboratory has been opened in Atyrau	Egemen Kazakhstan	2/7/2017		Print and online article	https://www.egemen.kz/2017/02/07/99150
60	Laboratory of smart machines	Bilimdi El	2/7/2017		Print article	№5(66) - February 07, 2017
61	The first Fabrication Laboratory has been opened in Kazakhstan	Liter	2/7/2017		Print article	№18(3093) - February 07, 2017
62	Atyrau has got the first digital laboratory in Kazakhstan	Khabar TV Channel	2/12/2017		Online article	http://khabar.kz/ru/news/obshchestvo/item/74926-v-atoryau-poyavilas-pervaya-v-kazahstane-tsifrovaya-laboratoriya
63	Atyrau has got the first digital laboratory in Kazakhstan	24 khabar TV Channel	2/12/2017		Television	http://24.kz/ru/news/social/item/163251-v-atoryau-poyavilas-pervaya-v-kazahstane-tsifrovaya-laboratoriya#itemVideoAnchor
64	Laboratory of engineering ideas	Kazakhstanskaya Pravda	2/16/2017		Online article	http://www.kazpravda.kz/articles/view/laboratoriya-inzhenernoi-misli/
65	Atyrau youth is ready for new heights	Zhas Atyrau	2/16/2017		Online article	http://zhasatyrau.kz/news/atoryauskaiya-molodezh-gotova-k-dostizheniem-novyx-vershin.html
66	INFORMATION TECHNOLOGIES ARE DEVELOPING DYNAMICALLY IN KAZAKHSTAN	Kazakh TV	2/20/2017		Television	KZ: http://kazakh-tv.kz/kz/view/news_kazakhstan/page_181683_information-technologies-are-developing-dynamically-in-kazakhstan RU: http://kazakh-tv.kz/ru/view/news_kazakhstan/page_181683_information-technologies-are-developing-dynamically-in-kazakhstan
67	A Robot will fight Desertification	Prikaspiyskaya Kommuna	2/21/2017		Print and online article	http://pricom.kz/?p=64512
68	Certificates of success	Bilimdi El	2/28/2017		Print article	Bilimdi El. №8(69), February 28, 2017. p. 13 https://www.dropbox.com/s/qwkpqv9ldsnmmo/PTS%20Graduation_Bilimdi%20EL.docx?dl=0
69	Let's learn and succeed together	Zhas Atyrau	3/9/2017		Online article	http://zhasatyrau.kz/news/berge-okyp-berge-tabyshka-zheteik.html
70	Opportunities of the Robotics training	Atyrau branch of "Kazakhstan" National TV Channel	3/14/2017		Television	http://atoryautv.kz/kz/news/society/robototehnika-uirmesinin-mumkindikteri
71	Family Games	Bilimdi El	3/28/2017		Print article	Bilimdi El. №11(72), March 28, 2017. p. 15 https://www.dropbox.com/s/5aialc9c1qt01u/STEM%20Do%86%D1%81%D1%82%20Do%B5%20Do%B9%D1%96%20Do%BA%21_Bilimdi%20EL.docx?dl=0
72	4 Ways Life Skills Training Changed 2 Young Women in Kazakhstan	IYF website	3/30/2017		Online blog	http://www.iyfnet.org/blog/4-ways-life-skills-training-changed-2-young-women-kazakhstan
TOTAL:	34					
Y2 Q4						
73	STEAM Fest	Zhas Atyrau	4/18/2017		Online announcement	http://zhasatyrau.kz/events/steam-fest.html

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74	Trilingualism is the requirement of time	Atyrau branch of "Kazakhstan" National TV Channel	4/24/2017		Television	http://atyrautv.kz/ru/news/society/trehyazychie-trebovanie-vremeni-1
75	STEAM Fest	Atyrau State University website	4/24/2017		Online announcement	https://asu.edu.kz/media/news/918/
76	STEAM Fest	APEC PetroTechnic website	4/24/2017		Online announcement	http://apec.edu.kz/3126-2/
77	STEAM Fest	Atyrau2go.kz	4/24/2017		Online announcement	http://atyrau2go.kz/archives/547
78	Alumnus of the month: Aisulu Sanat's interview	Nazarbayev University website	April, 2017		Online article	https://alumni.nu.edu.kz/ru/nashi-vypuskniki-2/alumnus-of-the-month/
79	Children have been delighted with the STEM Festival	Zhas Atyrau	4/30/2017		Online article	http://zhasatyrau.kz/news/balalardy-shattykka-bolegen-stem-festivali.html
80	The STEM Fest that leads the youth to success	Zhas Atyrau	5/3/2017		Television	http://zhasatyrau.kz/zhas-tv/zhasardy-tabyska-zheteleitin-stem-festivali.html
81	Second STEAM Fest has been held in Atyrau	Akimat's website	5/3/2017		Online article	http://atyrau.gov.kz/news/read/Vtoroj_Festival_STEMobrazovaniya_i_Iskusstva_proshel_v_Atyrau.html
82	Second STEAM Fest has been held in Atyrau	Munaily Astana	5/3/2017		Online article	http://www.m-astana.kz/article/view?id=5291
83	Second STEAM Fest in Atyrau	Komsomolskaya Pravda	5/12/2017		Online article	http://www.kp.kz/society/13878-vtoroj-festival-stem-obrazovaniya-i-iskusstva-v-atyrau
84	A plan to start production of 3D printers in Atyrau	Bnews.kz	5/15/2017		Online article	http://bnews.kz/ru/news/v_atirau_naladyat_proizvodstvo_3d_printerov
85	A plan to start production of 3D printers in Atyrau	Zakon.kz	5/15/2017		Online article	https://www.zakon.kz/4858701-v-atyrau-planiruyut-naladit.html
86	A plan to start production of 3D printers in Atyrau	i-news.kz	5/15/2017		Online article	https://i-news.kz/news/2017/05/15/8500901-v-atyrau-planiruyut_naladit_proizvodstvo.html
87	A plan to start production of 3D printers in Atyrau	Nur.kz	5/15/2017		Online article	https://www.nur.kz/1493606-v-atyrau-planiruyut-naladit-proizvod.html
88	A plan to start production of 3D printers in Atyrau	kaznews.kz	5/15/2017		Online article	http://kaznews.kz/news/139213
89	Atyrau youth have created a 3D printer propotype	Atyrau newspaper	5/15/2017		Print and online article	http://atr.kz/?p=22341
90	"Passport to Success"	Zhas Atyrau	5/15/2017		Television	http://zhasatyrau.kz/zhas-tv/tabyska-zheteleitin-tolkuzhat-oz-maresine-zhetti.html
91	Zangar project	Atyrau Polytechnic College website	5/15/2017		Online article	KAZ: http://www.apolitcol.kz/kk/news/zangar-zhobasy-tabyska-zhetkizetin-tolkuzhat-bagdarlamasy RU: http://www.apolitcol.kz/ru/news/proekt-zangar
92	A plan to start production of 3D printers in Atyrau	Newtimes.kz	5/16/2017		Online article	http://newtimes.kz/eshche/regiony/item/51882-v-atyrau-planiruyut-naladit-proizvodstvo-3d-printerov
93	The Family Games Festival	Bilimdi El	5/16/2017		Print article	Bilimdi El. №19(80), May 16, 2017, p. 8
94	Second STEM and Art Festival takes place in Atyrau	The Astana Times	5/16/2017		Online article	http://astanatimes.com/2017/05/second-stem-and-art-festival-takes-place-in-atyrau/
95	3D printers in Atyrau	Prikaspiyskaya Kommuna	5/16/2017		Online article	http://pricom.kz/?p=66537
96	Atyrau students have collected a 3D printer	Atyrau branch of "Kazakhstan" National TV Channel	5/16/2017		Television	http://atyrautv.kz/ru/news/society/atyrauskie-studenty-sobrali-3d-printer-svoimi-rukami
97	STEM, Life Skills & Fear of Failure in Kazakhstan	IYF website	5/22/2017		Online blog	http://iyfnet.org/blog/stem-life-skills-fear-failure-kazakhstan
98	STEM and Art Festival	Turkestan international newspaper	5/22/2017		Print and online article	http://turkystan.kz/zhanalyktar/31559
99	First STEM Olympiad in Atyrau	Munaily Astana	6/1/2017		Online article	http://m-astana.kz/article/view?id=5398
100	What is Hackathon?	Bilimdi El	6/13/2017		Print article	Bilimdi El. №22(83), June 13, 2017, p. 13
101	Innovative approach to the STEM education on Atyrau University	Atyrau State University website	6/15/2017		Online article	https://asu.edu.kz/ru/media/news/1503/

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102	Training of Master Trainers	Atyrau branch of "Kazakhstan" National TV Channel	6/29/2017		Television	KAZ: http://atyrautv.kz/kz/news/society/tabyskazhetkizetin-tol-kuzhat RUS: http://atyrautv.kz/ru/news/society/trening-dlya-masterov-trenerov
103	20 Master Trainers of the international "Passport to Success" program have been prepared in Atyrau	Bilimdi El	6/30/2017		Online article	http://bilimdinews.kz/index.php/item/3213-v-atyrau-podgotovili-20-master-trenerov-mezhdunarodnoj-programmy-pasport-k-uspekhu
TOTAL:	31					
Y3 Q1						
104	The way to success through the passport	Prikaspiyskaya Kommuna	7/11/2017	4,465 circulation	Print and online article	http://pricom.kz/?p=67621
105	Key directions of the President's address are being implemented in Atyrau region	Liter	7/18/2017	30,000 circulation; 1,135 online views	Online article	https://liter.kz/ru/articles/show/34791-osnovnye_napravleniya_poslaniya_elbasy_realizu_yutsya_v_atyrauskoj_oblasti
106	Zangar project's next round of STEM	Munaily Astana	7/24/2017	409 online views	Online article	http://m-astana.kz/article/view?id=5500
107	Gaining 21st Century Work Skills in Kazakhstan	IYF website	7/25/2017		Online blog	http://iyfnet.org/blog/gaining-21st-century-work-skills-kazakhstan
108	STEM development for the success of Atyrau youth	Atyrau State University website	8/11/2017	309 online views	Online article	KAZ: https://asu.edu.kz/media/news/1645/ RUS: https://asu.edu.kz/ru/media/news/1648/
109	Passport to Success	Atyrau branch of "Kazakhstan" National TV Channel	8/14/2017	1,652 followers	Television	KAZ: http://atyrautv.kz/kz/news/society/tabyskazhetkizetin-tolkuzhat RUS: http://atyrautv.kz/ru/news/society/pasport-k-uspehu-1
110	The sun teases, the sea beckons	Prikaspiyskaya Kommuna	8/15/2017	4,465 circulation	Print and online article	http://pricom.kz/?p=68324
111	Development of STEM for Atyrau youth success	EduNews.kz	8/15/2017		Online article	KZ: http://edunews.kz/lentnews/277-atyrau-zhastaryny-tabysy-shn.html RU: http://edunews.kz/ru/lentnews/277-atyrau-zhastaryny-tabysy-shn.html
112	Training of Trainers	Bilimdi El	8/29/2017	6,346 circulation	Print article	Bilimdi El. №32(93), August 29, 2017, p. 13
113	Meirgul's interview on the "Atyrau Tany" broadcast	Atyrau branch of "Kazakhstan" National TV Channel	8/31/2017	1,652 followers	Television	
114	In Grade 5 Japanese learn creating robots, whilst our children learn how to brush suede shoes	The Steppe	9/20/2017	13,128 followers	Online article	https://the-steppe.com/news/business/2017-09-20/yaponcy-v-5-klasse-robotov-sozdayut-a-nashi-deti-uchatsya-pravilno-chistit-zamshevuyu-obuv
115	In Atyrau youth can be taught at the University from the fifth grade	Atyrau newspaper	9/21/2017	18,006 circulation; 9,262 online views	Print and online article	http://atr.kz/?p=27124
TOTAL:	12			90.829		
Y3 Q2						
116	The Republican Forum of Tripartite Cooperation "ASAR" in Atyrau	ATPress	10/30/2017	503	Online article	http://atpress.kz/news/respublikanskij-forum-trexstoronnego-sotrudnichestva-«.html
117	Republican forum on cooperation between the state, business and NGOs kicked off in Atyrau	Moi gorod	10/30/2017	1302	Online article	http://mgorod.kz/nitem/v-atyrau-startoval-respublikanskij-forum-po-sotrudnichestvu-gosudarstva-biznesa-i-npo/
118	Republican forum on cooperation between the state, business and NGOs kicked off in Atyrau	Akimat's website	10/30/2017	813	Online article	KAZ: http://atyrau.gov.kz/news/read/V_Atyrau_startoval_respublikanskij_forum_po_sotrudnichestvu_gosudarstva_biznesa_i_NPO.html RUS: http://atyrau.gov.kz/news/read/V_Atyrau_startoval_respublikanskij_forum_po_sotrudnichestvu_gosudarstva_biznesa_i_NPO.html?lang=ru
119	"Asar" has gathered those not indifferent	Prikaspiyskaya Kommuna	10/30/2017	4465	Online article	http://pricom.kz/?p=70781

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120	Republican forum on cooperation between the state, business and NGOs has started in Atyrau	Egemen Kazakhstan	10/30/2017	33452	Online article	https://ru.egemen.kz/article/1566-v-atoryau-nachalsya-respublikanskiy-forum-sotrudnichestva-asar
121	Implementation of the "Rukhani Zhanqyru" program	Atyrau branch of "Kazakhstan" National TV Channel	10/30/2017	2615	Television	http://atyrautv.kz/ru/news/society/realizaciya-programmy-ruhani-zhanqyru-1
122	Republican forum on cooperation between the state, business and NGOs kicked off in Atyrau	Tengrinews.kz	10/30/2017	538	Online article	https://tengrinews.kz/kazakhstan_news/atyrau-startoval-respublikanskiy-forum-sotrudnichestvu-329793/
123	Republican forum on cooperation between the state, business and NGOs kicked off in Atyrau	dknews.kz	10/30/2017	132	Online article	https://dknews.kz/society/51826-v-atoryau-startoval-respublikanskiy-forum-po-sotrudnichestvu-gosudarstva-biznesa-i-npo.html
124	Republican forum on cooperation between the state, business and NGOs kicked off in Atyrau	Zakon.kz	10/30/2017		Online article	https://www.zakon.kz/4885953-v-atoryau-startoval-respublikanskiy.html
125	«ASAR» republican forum on the state-business-NGOs cooperation has been held in Atyrau	Liter	10/31/2017	416	Online article	https://liter.kz/ru/articles/show/38733-respublikanskii_forum_trehstoronnego_sotrudnichestva_npo-biznes-gosudarstvo_asar_proveden_v_atoryau
126	Forum of Tripartite Cooperation is going on	Aikyn	10/31/2017	368	Online article	http://aikyn.kz/2017/10/31/31833.html
127	Meet the Young Team in Kazakhstan Advancing STEM Education	IYF website	11/9/2017	400	Online blog	https://www.iyfnet.org/blog/meet-young-team-kazakhstan-advancing-stem-education
128	The State Secretary of the Republic of Kazakhstan has visited ASU named after Kh. Dosmukhamedov	Atyrau State University website	11/22/2017	221	Online article	KAZ: https://asu.edu.kz/media/news/2254/ RUS: https://asu.edu.kz/ru/media/news/2273/
129	Sustainability of STEM programs in Atyrau	Atyrau State University website	11/27/2017	185	Online article	KAZ: https://asu.edu.kz/media/news/2285/ RUS: https://asu.edu.kz/ru/media/news/2286/
130	In the field of STEM education	Bilimdi El	12/5/2017	6346	Print and online article	Bilimdi El. №45(106), December 05, 2017, p. 13
131	4 Indirect Impacts of Life Skills Training in Kazakhstan	IYF website	12/5/2017	400	Online blog	https://www.iyfnet.org/blog/4-indirect-impacts-life-skills-training-kazakhstan
TOTAL:	16			52156		
Y3 Q3						
132	Passport to Success	Atyrau branch of "Kazakhstan" National TV Channel	1/29/2018	3303	Television	http://atyrautv.kz/kz/news/society/tabyska-zhetkizetin-tolkuzhat-video?_utl_t=fb
133	Orientation on Success	Prikaspiyskaya Kommuna	2/1/2018	5383	Print and online article	http://pricom.kz/%D0%BE%D1%80%D0%B8%Do%B5%Do%BD%D1%82%Do%B0%D1%86%Do%B8%D1%8F-%Do%BD%Do%Bo-%D1%83%D1%81%Do%BF%Do%B5%D1%85/
134	Zangar project - Passport to Success	Atyrau	2/5/2018	162	Online article	http://atr.kz/%D0%B7%Do%B0%D2%A3%D2%93%Do%Bo%D1%80-%Do%B6%Do%BE%Do%B1%Do%Bo%D1%81%D1%8B-%D1%82%Do%B0%Do%B1%D1%8B%D1%81%D2%9B%Do%Bo-%Do%B6%Do%B5%D1%82%Do%BA%D1%96%D0%B7%Do%B5%D1%82%D1%96%Do%BD-%D1%82/
135	STEM Hackathon Olympiad in Atyrau	BE website	2/5/2018	1015	Online announcement	http://stem-academia.com/olympiad.html
136	STEM Olympiad in Atyrau	Atyrau State University website	2/19/2018	150	Online article	https://asu.edu.kz/ru/media/news/2588/
TOTAL:	5			10013		
Y3 Q4						
137	Atyrau will host a "STEM through history" festival	Atyrau	4/6/2018	236	Online announcement	http://atr.kz/atyrauda-stem-tarih-oynauyinda-atvi-festival-tedi/
138	STEM and Arts festival was held	Atyrau branch of "Kazakhstan" National TV Channel	4/9/2018	3303	Television	KZ: http://atyrautv.kz/kz/news/society/ushinshisteam-zhene-oner-festivali-otti-video RU: http://atyrautv.kz/ru/news/society/proshel-festival-steam-obrazovaniya-i-iskusstva-video
139	Zangar sets the pace	Aikyn	4/10/2018	292	Online article	https://aikyn.kz/2018/04/10/48757.html

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140	STEAM Fest in AOGU	AOGU website	4/10/2018	100	Online article	http://atrmgu.kz/steam_fest_v_stenax_aung.html
141	STEAM through History	Prikaspiyskaya Kommuna	4/11/2018	5383	Print and online article	http://pricom.kz/steam-%D1%87%Do%B5%D1%80%Do%B5%Do%B7-%Do%BF%D1%80%Do%B8%Do%B7%Do%BC%D1%83-%Do%B8%D1%81%D1%82%Do%BE%D1%80%Do%B8%Do%B8/
142	STEAM Fest	Zhas Atyrau	4/11/2018	113	Online article	http://zhasatyr.kz/news/steam-fest.html
143	Robotics Trainings	Zhas Atyrau	4/11/2018	71	Television	http://zhasatyr.kz/zhas-tv/robototexnika-trening%D1%96.html
144	Open Day	Atyrau branch of "Kazakhstan" National TV Channel	4/16/2018	2694	Television	http://atyratv.kz/kz/news/society/ashyk-esik-kuni-video
145	STEM and Arts festival was held in Atyrau	24 khabar TV Channel	4/16/2018	435	Television	http://24.kz/ru/news/social/item/234112-festival-nauki-i-iskusstva-proshel-v-atoryau Video: http://24.kz/ru/news/vypuski-novostej/item/234097-vypusk-novostej-20-00-ot-16-04-2018
146	Zangar project: how youth in Atyrau learn science, technologies and life skills	Weproject.kz	4/16/2018	1065	Online blog	http://weproject.kz/articles/detail/proekt-za-arkak-v-atoryau-molodezh-izuchaet-nauku-tehnologii-i-zhiznennye-navyki/
147	Education of a new generation	Financial center website	no date	300	Online article	http://www.fincenter.kz/news/?ELEMENT_ID=1304
148	Open Day was held at university	Atyrau State University website	4/16/2018	335	Online article	https://asu.edu.kz/media/news/2887/
149	3 Takeaways from a STEAM Festival in Kazakhstan	IYF website	4/27/2018	400	Online blog	https://www.iyfnet.org/blog/3-takeaways-steam-festival-kazakhstan
150	STEM program	AOGU website	no date	100	Online article	http://atrmgu.kz/kurs_po_programme_stem.html
151	STEM program completed	AOGU website	5/21/2018	100	Online article	http://atrmgu.kz/zavershenie_kursa_po_stemobrazovaniiu.html
152	Passport to Success	Atyrau	5/22/2018	18006	Print article	Atyrau. №41, May 22, 2018, p. 13
153	Configure to success	Prikaspiyskaya Kommuna	6/4/2018	5383	Online article	http://pricom.kz/%Do%BD%Do%Bo%D1%81%D1%82%D1%80%Do%BE%Do%B8%D1%82%D1%8C-%Do%BD%Do%Bo-%D1%83%D1%81%Do%BF%Do%B5%D1%85/
154	Atyrau has the only civil center in Kazakhstan	Astana TV	6/8/2018	68	Television	http://astanatv.kz/news/show/id/67324.html
TOTAL:	18			38384		
Y4 Q1						
155	"Zangar" nurture your own Newtons	Prikaspiyskaya Kommuna	7/26/2018	5383	Print and online article	http://pricom.kz/%do%b7%do%bo%d2%a3%d2%93%do%bo%d1%80-%d1%80%do%bo%d1%81%d1%82%do%b8%d1%82%d1%8c-%d1%81%do%be%do%b1%d1%81%d1%82%do%b2%do%b5%do%bd%do%bd%d1%8b%d1%85-%do%bd%d1%8c%d1%8e%d1%82%do%be%do%bd/
156	Festival of STEM and Arts	Atyrau branch of "Kazakhstan" National TV Channel	7/25/2018	2694	Television	http://atyratv.kz/kz/news/society/stem-zhener-festivali-otti-video
157	Whose portfolio is more important	Bilimdi El	7/31/2018	14	Online article	https://bilimdinews.kz/?p=11196
158	Youth of Atyrau presented STEM projects aimed at solving social problems	ASU website	7/25/2018	43	Online article	https://asu.edu.kz/ru/media/news/3262/
159	What does Zangar project give to young people?	Zhasatyr website	8/1/2018	65	Online article	http://zhasatyr.kz/zangar-zhobasyi-zhastarga-neberedi/
160	Young People Tell Us What Safe Spaces Mean to Them	IYF website	8/10/2018	400	Online blog	https://www.iyfnet.org/blog/young-people-tell-us-what-safe-spaces-mean-them
161	Learning to manage money	Prikaspiyskaya Kommuna	9/3/2018	5383	Print and online article	http://pricom.kz/научиться-управлять-деньгами/

ANNEX C: FINAL MEDIA MENTIONS (JUNE 2015 – JUNE 2020)

162	Financial Management Workshop	Bilimdi El	9/6/2018	6363	Print and online article	https://bilimdinews.kz/?p=13398
163	Project management training	Atyrau Civic Centre	9/27/2018	5903	SM post, video	https://www.instagram.com/p/BoOhbuRnbFg/?taken-by=gcenter.atr
164	Ship models' march	Bilimdi El	10/2/2018	6360	Print and online article	https://bilimdinews.kz/?p=15026
165	Young engineers	Prikaspiyskaya Kommuna	10/8/2018	5383	Print and online article	http://pricom.kz/%D1%8E%D0%BD%D1%8B%D0%B5-%D0%B8%D0%BD%D0%B6%D0%B5%D0%BD%D0%B5%D1%80%D1%8B/
166	The Future of Global Stability. The World of Work in Developing Countries. Volume 2. Developing Country Trends and Insights from Four Country Case Studies	Center for Strategic and International Studies	10/19/2018	544,763	Other	https://csis-prod.s3.amazonaws.com/s3fs-public/publication/181010_WorldofWork_Vol.2.pdf?d8E7_zltMGp35ztNMA7QVPFX8Gei7nj
167	A Report by the Center for Strategic and International Studies Project on Prosperity and Development, "The Future of Global Stability. The World of Work in Developing Countries. Kazakhstan Case Study"	Center for Strategic and International Studies	10/20/2018	544,763	Other	https://www.csis.org/programs/project-prosperity-and-development/future-global-stability-world-work-developing-countrie-4
TOTAL:	13			565,898		
Y4Q2						
168	The effectiveness of the new project is clearly visible in Atyrau	Atytau newspaper	10/19/2018	18,006 circulation; 489 online views	Print and online article	http://atr.kz/atyrauda-zha-a-zhobanyi-tiimdiligi-ay-yin-bay-aluda/
169	What is Hour of Code?	Zhasatyrau website	12/24/2018	126	Online article	http://zhasatyrau.kz/cht0-oznachaet-chas-koda/
TOTAL:	2			18,621		
Y4Q3						
170	Code and art therapy	Bilimdi El	1/8/2019	6,362	Print and online article	http://www.bilimdinews.kz/?p=24924
171	How to learn programming	Prikaspiyskaya Kommuna	1/14/2019	5383	Print and online article	http://pricom.kz/obshhestvo/obrazovanie/kak-nauchitsya-osnovam-programmirovaniya.html
172	Atyrau students helped citizens to cope with ice	Prikaspiyskaya Kommuna	1/14/2019	5383	Print and online article	http://pricom.kz/obshhestvo/kultura/atyrauskie-studentyi-v-svobodnoe-ot-zanyatiy-vremya-posvipavut-trotuarvy-peskom-i-razdavut-gorozhanam-yabloki.html
173	Your "Passport to Success"	AOGU website	no date	100	Online article	http://atrmgu.kz/tvoj_pasport_k_uspexu.html
174	Passport to Success	Atyrau branch of "Kazakhstan" National TV Channel	1/18/2019	2694	Television	http://atyrautv.kz/kz/news/society/tabyska-zhetkizetin-tolkuzhat-video-1?fbclid=IwAR13OLAty_ICCsIoUfrNoofJfIrkqoWwqoLiY-4Uj2-xXoK_23x2Mo_pY
175	Passport to Success	Caspian News TV Channel	1/19/2019	4,548	Television	https://www.facebook.com/casplannews.kz/videos/327285197879935/
176	Winter camp of knowledge	Bilimdi El	1/22/2019	6,353	Print and online article	http://www.bilimdinews.kz/?p=26574
177	Thank the school students	Vremya	2/5/2019	526	Online article	http://www.time.kz/fresh/aktualno/2019/02/05/skazhite-spasibo-shkolnikam
178	Darkhan Kaletayev visited the Atyrau region with a working visit	Website of the Ministry of social development	2/20/2019	n/a	Online article	https://qogam.gov.kz/ru/news/darhan-kaletayev-pobyval-s-rabochey
179	Darkhan Kaletayev visited the Atyrau region with a working visit	Facebook account of the Ministry of social development	2/20/2019	2848	Online article	https://www.facebook.com/qogam.gov.kz/
180	Darkhan Kaletayev visited the Atyrau region with a working visit	Instagram account of the Ministry of social development	2/20/2019	2790	Online article	https://deskgram.net/p/1983445848054573608_6856930134
181	APEC Petrotechnic Press-tour	APEC PetroTechnic Facebook	3/27/2019	448	Online article	https://www.facebook.com/permalink.php?story_fbid=2256459791260609&id=100006898299134
182	Fab Lab Atyrau relocated to APEC	APEC PetroTechnic Facebook	3/21/2019	448	Online article	https://www.facebook.com/ZangarAtyrau/photos/pcb.2262397844043628/2262397824043630/?type=3&theater_MqdETZpllcqhfNOeHs6Jm3A4jbRm
183	Secondary and postsecondary students spend holidays in the robotics camp	Moi gorod	3/28/2019	514	Online article	http://mgorod.kz/nitem/shkolniki-i-studenty-atyrau-provodyat-kanikuly-v-lagere-po-izucheniyu-robototexniki/

ANNEX C: FINAL MEDIA MENTIONS (JUNE 2015 – JUNE 2020)

209	STEM projects exhibition: from the "smart" dron to electric bicycle	Bilimdi El	6/11/2019	6346	Print article	https://docviewer.yandex.ru/view/0/?*=rBavmpnXY4vqXqMu3jEAFmeryFJ7InVybCI6InlhLWRpc2stcHVibGJjOi8vd0JUQWZESWxkOXGdEINN3JDY
210	Training for NGO reps	Atyrau branch of "Kazakhstan" National TV Channel	8/2/2018	2694	Television	http://atyrautv.kz/ru/news/society/trening-dlya-predstavitelei-npo
211	Atyrau youth is being taught life skills	Kazinform national information agency	2/11/2018	225	Online article	http://lenta.inform.kz/ru/zhiznennym-navykam-obuchayut-molodezh-v-tyrau_a3150183
212	Dive into history	Kazakhstanskaya Pravda	4/23/2018	778	Online article	https://www.kazpravda.kz/news/ruhani-zhangiru/pogruzhenie-v-istoriu
TOTAL:	28			84,191		
Y5Q1						
213	Better than people? or Robot, help!	Prikaspiyskaya Kommuna	7/23/2019	4520	Print and online article	http://pricom.kz/molodezh/luchshe-chem-lyudi-ili-robot-pomogaj.html
214	Skilful hands	Caspian News TV Channel	8/1/2019	10947	Television	https://www.facebook.com/caspiannews.kz/videos/331862381052563/
215	Big STEM break	Bilimdi El	8/5/2019	35	Online article	http://bilimdinews.kz/?p=53414
216	Young People Tell Us What Education Means to Them & 7 Ways to Improve It	IYF website	8/12/2019	400	Online article	https://iyfnet.org/blog/young-people-tell-us-what-education-means-them-7-ways-improve-it
217	Skills laboratory	Vlast	9/4/2019	159	Online article	https://vlast.kz/faces/35097-laboratoria-navykov.html
TOTAL:	5			16,061		
Y5Q2						
218	On Day of the Girl, Hear from 11 Young Women About the Rights That Matter Most	IYF website	10/11/2019	400	Online article	https://www.iyfnet.org/blog/day-girl-hear-11-young-women-about-rights-matter-most
219	Fab Lab Atyrau tour	Bilimdi El	10/16/2019	82	Print and online article	https://bilimdinews.kz/?p=68219
220	How to revive a robot	Bilimdi El	11/20/2019	56	Online article	https://bilimdinews.kz/?p=75089
221	STEM weekend	Caspian News TV Channel	11/17/2019	10611	Television	was streamed live only
222	STEM: platform of opportunities	Caspian News TV Channel	11/26/2019	10611	Television	https://m.facebook.com/story.php?story_fbid=2454227441504617&id=965663983634731&sfnsn=mo&d=n&vh=e
223	Students in Atyrau built a guitar	Moi gorod	12/12/2019	2326	Online article	https://mgorod.kz/nitem/v-tyrau-shkolnica-i-student-sozdali-elektrogitaru/
224	Students in Atyrau built a guitar	AtyrauOil.official	12/12/2019	3191	Online article	https://www.instagram.com/p/B5-GIRRhoCo/
225	Sound, guitar, in three chords	Vremya	12/16/2019	981	Online article	https://time.kz/articles/nu/2019/12/16/zvuchi-gitara-v-tri-akkorda
226	Created an electro guitar	Atyrau branch of "Kazakhstan" National TV Channel	12/23/2019	96	Television	https://www.youtube.com/watch?v=q1WzJujtiYY&feature=youtu.be
227	Atyrau students make furniture	Moi gorod	12/26/2019	790	Online article	https://mgorod.kz/nitem/atyrauskie-shkolniki-izgotavlivayut-mebel-foto/
TOTAL:	10			29,144		
Y5Q3						
228	This is not just a chair	Vremya	1/13/2020	536	Online article	https://time.kz/articles/reporter/2020/01/13/eto-vam-ne-prosto-kreslo
229	Fab Lab Atyrau has completed over 40 projects in three years	Khabar TV Channel	1/14/2020	289	Television	https://www.youtube.com/watch?time_continue=1&v=gbER7bkNayQ&feature=emb_logo
230	Gypsum souvenir	Vremya	3/6/2020	1095	Online article	https://time.kz/articles/nu/2020/03/06/suvenir-v-gipse
231	Second STEM and Art Festival takes place in Atyrau	Brooklyn Renaissance Group website	5/18/2017	n/a	Online article	https://brooklynrenaissancgroup.org/2017/05/18/second-stem-and-art-festival-takes-place-in-tyrau/
TOTAL:	4			1920		
Y5Q4						
232	Programming team	Prikaspiyskaya Kommuna	5/15/2020	4465	Print article	
TOTAL for 5 years:	232					

ANNEX D: QUOTE CARDS

“
Fab Lab Atyrau is a great place to practice knowledge and learn how things work.
 —Diyas Umirbekov,
 lyceum #16 named after
 Zh. Karazhigitov
 ”







“
By visiting fabrication laboratories such as Fab Lab Atyrau, you can fulfill your dreams without spending big amounts of money. We constructed an electric guitar here, for instance.
 —Ulpan Yerzhanova,
 school named after H. Dospanova,
 Caspian modern higher college
 ”







“
I appreciate the opportunity of being a part of the Fab Lab Atyrau crew because everyone who is working here is an enthusiast of his/her job. They impact society by providing free STEM education and empowering the local young people.
 —Mariya Li, lecturer at
 Suleiman Demirel University
 ”









“
I gain valuable experience with every new project.
 —Vladimir Leonov,
 Caspian modern
 higher college
 ”








“
Fab Lab Atyrau became the main reason why I would like to stay in Atyrau. Any idea you have can become real here.
 —Zhanibek Zheksembay,
 “Bilim-Innovation” lyceum
 ”





Akimat of Atyrau region



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