

# Towards 4<sup>th</sup> Industrial Revolution: Perspective and Our Opportunities

**Abu Jubayer, Managing Director**

Sustainable Research and Consultancy Ltd. (SRCL)

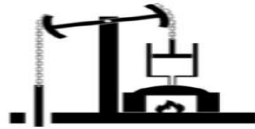
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# Chronology of Industrial Development

## INDUSTRIAL REVOLUTION

**1.0**



**Based on mechanical production driven by water & steam power.**

**2.0**



**Based on mass production enabled by electrical energy.**

**3.0**



**Based on the use of computer & electronics to further enhance automation.**

**4.0**



**Based on the use of cyber physical systems.**

# THE 4<sup>th</sup> INDUSTRIAL REVOLUTION

**Affects almost every facets of business sectors and arenas**

## SECURITY

Cybersecurity



IOT Security

## TRANSACTION

Centralized Repository



Blockchain

## INTERFACE

Buttons



Voice & Gestures

## DECISION MAKING

Data & Spreadsheet



Artificial Intelligence

## MOBILITY

Driver



Autonomous

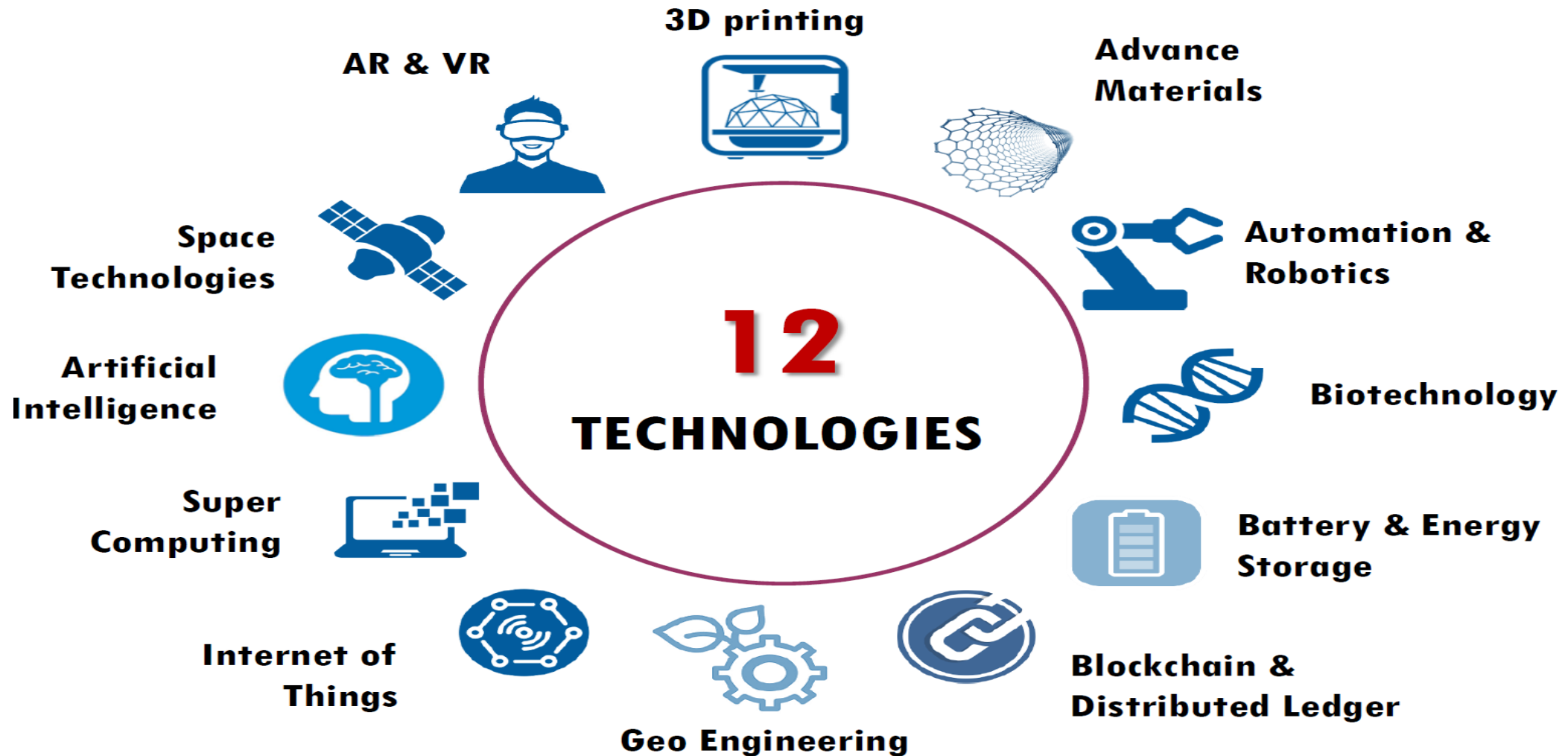
## FACTORIES

Humans



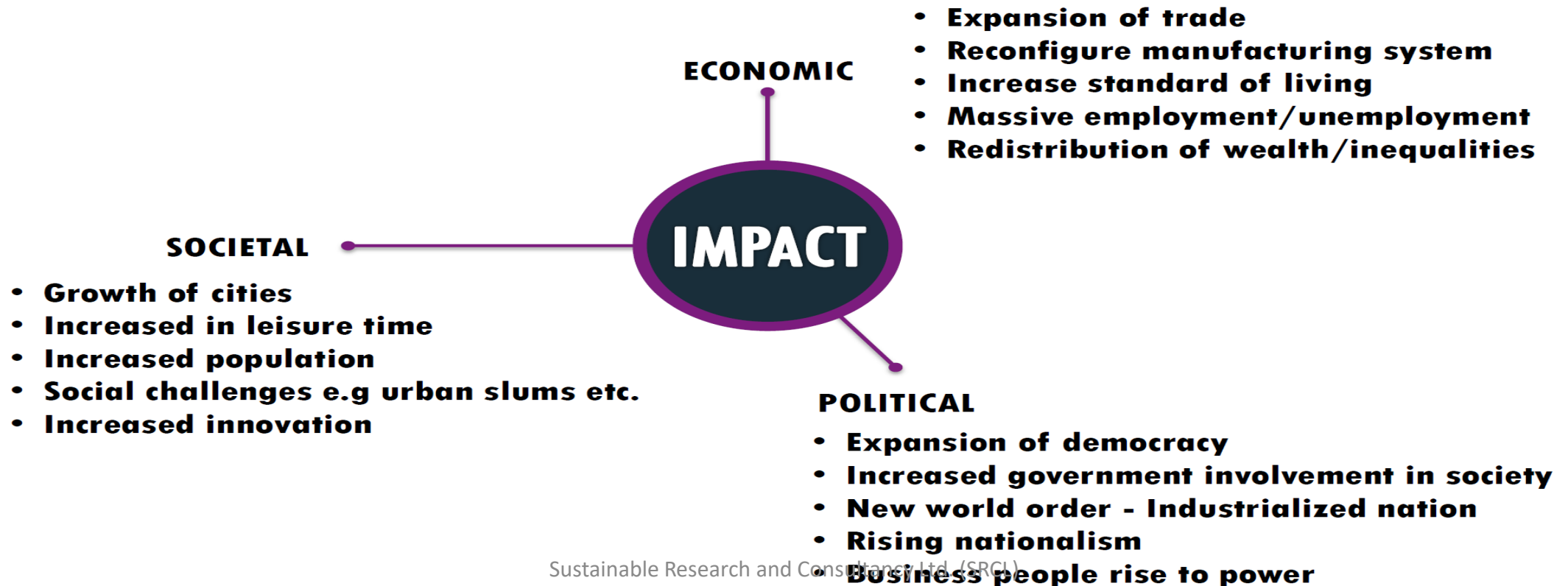
Robots

# Basic Technologies for 4 IR



# IMPACT : Where and How?

## THE 4<sup>th</sup> INDUSTRIAL REVOLUTION





# **JOBS THAT DID NOT EXIST 10 YEARS AGO**

**BLOGGER**



**SUSTAINABILITY  
MANAGER**



**DRONE OPERATOR**



**APPS DEVELOPER**



**SOCIAL MEDIA  
STRATEGIST**



**DATA SCIENTIST**



# Requirements in Leather Sector



## Seamless Communication

Share your thoughts and ideas on the digital sphere and improve collaboration between your teams, partners and suppliers globally.



## Faster Delivery

Accelerate your garment creation process and get faster to market by receiving early feedback, making instant style decisions, and automating processes.



## 95% Accuracy

Leverage the use of technology to create true to life 3D virtual samples that can instantly be adjusted and fine-tuned according to your needs and desires.



## Increased Productivity

Save time, money, manual labor, and use of materials by creating true to life virtual samples at the push of a button.



## Sustainable Workflow

Enjoy the benefits of a digital workflow and close the loop on sustainability by creating and approving entire collections without cutting a single piece of fabric.

# Our Future Target (Skilled Manpower Preparation)

1. Upscaling & Improve Management Skills
2. Reskilled Worker Development & Mentorship
3. Develop Technical & Specialized Skills Training Program



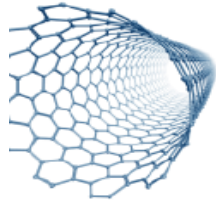


# Training Program For Mid Level and Senior Management in leather Sectors

**3D printing**



**Advance  
Materials**



**Automation &  
Robotics**

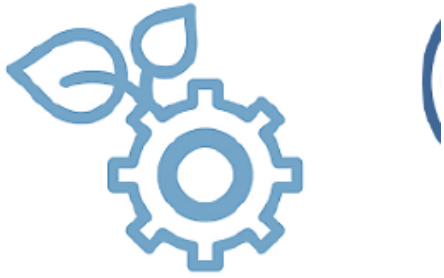


**Blockchain &  
Distributed Ledger**



Online Trainings for  
Midlevel Management

# Advance Level Training



**Geo Engineering**

**Internet of  
Things**



**Super  
Computing**



**Artificial  
Intelligence**



**AR & VR**



# Advance Level Training for Auto Worker Development

3D Model Presentation for Buyer



3D Automated Cutting Bangladesh



# Progress in Vietnam and Other Countries



3D Model Presentation for Buyer



Automated Voice Control Sewing Machine



Automated Leather Processing with Tracing



# Top 10 Largest Leather Importers and Exporters

Rank	Country	2019 Import Value (US\$ million)
1	Italy	2,413.6
2	China	967
3	Mexico	772.3
4	USA	603.5
5	Romania	442.7
6	Portugal	418.7
7	Poland	388.7
8	South Korea	385.1
9	Hungary	238.1
10	Japan	192.9

Rank	Country	2019 Export Value (US\$ million)
1	Italy	3,819.8
2	USA	1,700.4
3	China	909.1
4	South Korea	509.5
5	UK	338.2
6	Mexico	316.9
7	Poland	269
8	Pakistan	228
9	New Zealand	179
10	Canada	159.8

# Basic Team Members

Sl. No.	Name	Qualification (Basic Education)	Relevant Experience (Year)
	Dr. Md. Mazedul Haque	PhD, Netherland	18
	Dr. Sayed Md. Nazim Uddin	PhD, Canada	13
	Dr. Razib Amirul Islam	PhD, Canada	12
	Dr. Zahanara Parvin	PhD, Japan	12
	Abu Jubayer	M. Sc. (BUET)	12
	Sadequr Rahman	M. Sc. (BUET)	10
	Emdad Ali	M. Sc. (JU)	18
	Jinnat Ara Khatun	M. ED (DU)	14
	Mehedi Hassan	M. S. S. (DU), IT	10
	Nazmul Hassan	B. SC. In CSE, (UAP), IT	8
	Sanjida Rahman	B. SC. In CSE, (CUET), IT	8
	Tanvir Rahman	B. SC. In CSE, (CUET), IT	5
	Salim Ahmed	B. SC. In CSE, (BUET), IT	5
	IT Support Technician (6)	Various	Various
	Office Staff (7)	Various	Various

# Tentative Funding Sources

1. Different Ministry Project (Labor Ministry, PM Office, ICT, A2I and others)
2. World Bank Running Project
3. World Bank Upcoming Project
4. ADB Running Project
5. ADB Upcoming Project
6. EU Running Project
7. NSDA Running and Upcoming Project
8. ILO and Other UN Organization Projects
9. Chamber of Commerce Projects
10. Others

# Our Basic Activities

## **Project Procurement**

1. Project Conceptualization
2. Concept Note preparation
3. Donor Agencies and Ministry Proposal Preparation
4. File Processing
5. Fund Allocation

## **Project Implementation**

1. International Training Arrangement
2. Master ToT Preparation
3. Field Training Implementation
4. Online Training Program Arrangement (Classroom and Trainer Module)
5. Cloud Based Hands on Training Program
6. Procurement and Setup advance level technologies for factories
7. Run Online based market for leather sectors



# Benefits of Leather Trade Organization (TO)

1. More International Buyers and More Export
2. Demand of Era and Change
3. Advance Level Mass Production in House
4. Advance for 4IR activities which Must Come
5. Compete International Market in Advance
6. New Bank Loan for Members
7. International Project Fund Gain
8. Skilled Manpower Development for Factories
9. New start for committee
10. Acceptance to Honorable Prime Minister, People Republic of Bangladesh
11. National and International Reputation
12. Start a new concept for All Members
13. Benefit in the long run

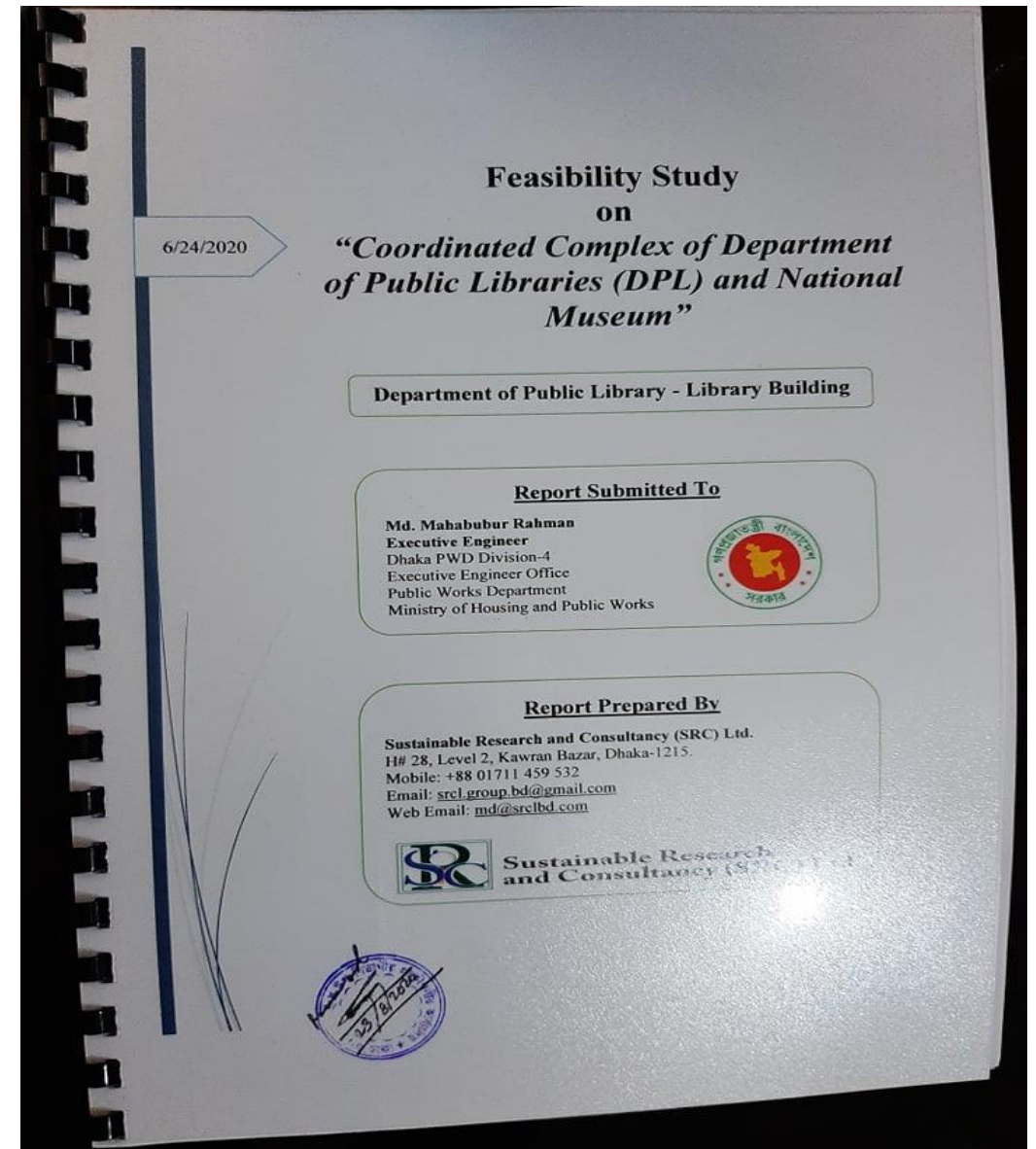
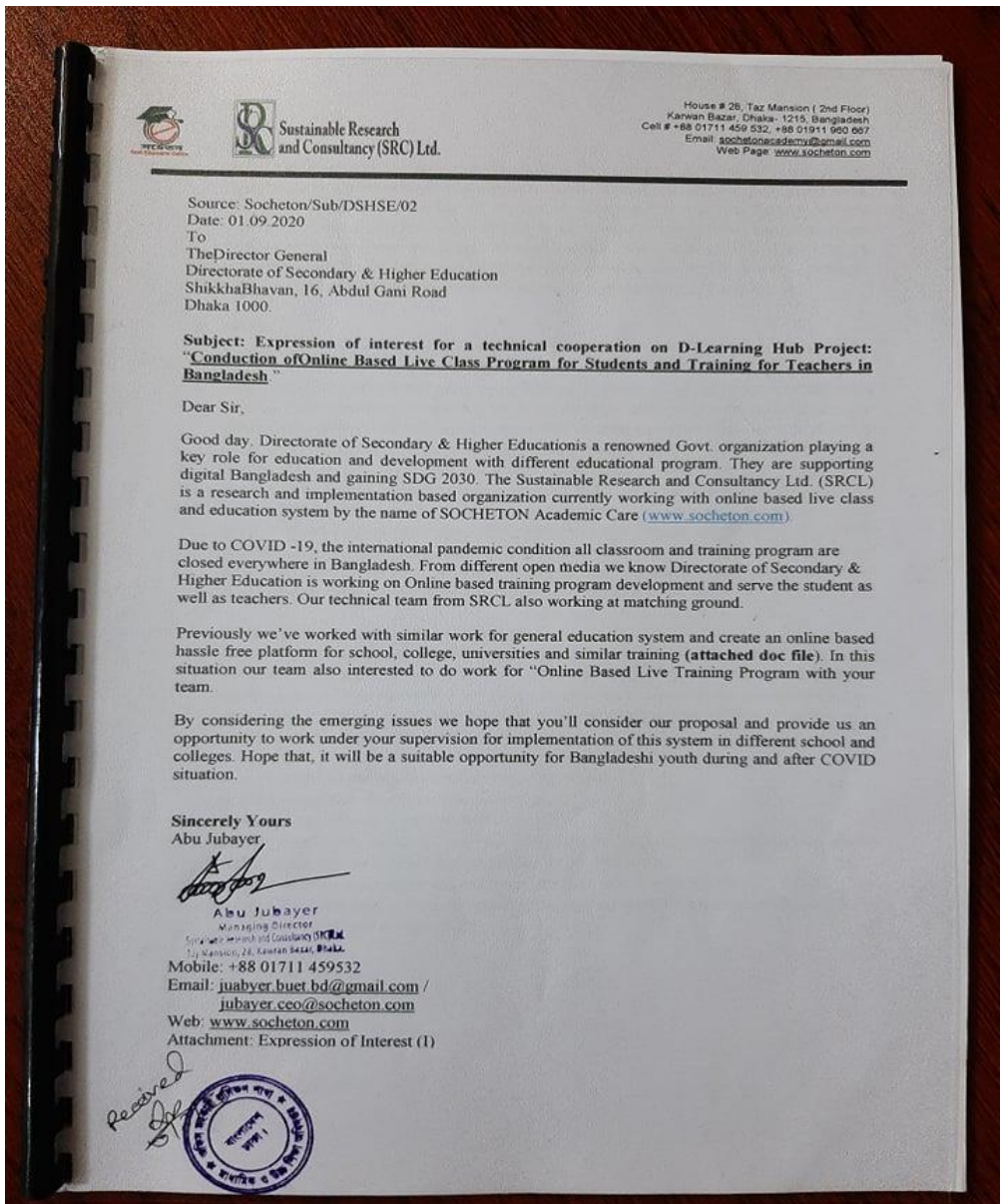
# Benefits of SRCL

1. Improve the Advance level of Training program in Bangladesh
2. Become a New Entrepreneur for 4IR sector in industry
3. Advance Technological Development for Skilled Sector and Become pioneer
4. General Consultancy Fees from this project Procurement
5. General remuneration from project management

# Why Choose Us?

- Bangladesh Govt. Registered Company for Consultancy (Incorporation, TIN, VAT and Trade License)
- National and International Experienced Team members
- International Trainer Pool (Australia, Singapore, Srilanka, India and Japan)
- Improved Online Training Facilities
- Different Running Training Projects ([www.socheton.com](http://www.socheton.com) )
- Relevant with different ministry of Government and other Donor Organization.

# Some Running Projects







Sustainable Research  
and Consultancy (SRC) Ltd.

House # 26, Taz Mansion (2nd Floor)  
Kawran Bazar, Dhaka- 1215, Bangladesh  
Cell # +88 01711 459 532, +88 01911 960 667  
Email: [sochetonacademy@gmail.com](mailto:sochetonacademy@gmail.com)  
Web Page: [www.socheton.com](http://www.socheton.com)

Source: SRCL/FSCD/04

Date: 09.08.2020

To

Director General

Bangladesh Fire Service and Civil Defense Department

36, 48 Kazi Allaudin Rd, Dhaka 1000.

**Subject: Expression of interest for a project on "Urban Fire Safety Readiness project."**

Dear Sir,

Good day. The Bangladesh Fire Service and Civil Defense Department (FSCD) is a renowned Govt. organization playing a key role for Fire safety and preparedness in Bangladesh since a long time. They are supporting digital Safe Bangladesh and gaining SDG 2030. The Sustainable Research and Consultancy Ltd. (SRCL) is a training, research and implementation based organization currently working with different fire safety readiness program and activities.

At present situation, basic fire safety training for different level of stakeholders are required for safety management and minimize the loss of lives and properties during fire. FSCD is working in this sector proudly. However, our team from SRCL is trying to develop these types of training and facility management program in private sector also.

By considering the emerging issues we hope that you'll consider our proposal and provide us an opportunity to work under your supervision. Hope that, it will be a suitable opportunity for Bangladeshi youth during and after COVID situation.

Sincerely Yours

Abu Jubayer  
Managing Director  
Sustainable Research and Consultancy (SRC) Ltd.  
Taj Mansion, 28, Kawran Bazar, Dhaka.

Mobile: +88 01711 459532

Email: [juabayer.buet.bd@gmail.com](mailto:juabayer.buet.bd@gmail.com)

Web: [www.socheton.com](http://www.socheton.com)

Attachment: Expression of Interest (I) and legal documents

RA/sonm  
21/6/2020

Continuing

6/24/2020

**Feasibility Study  
on  
“Establishment of National Museum  
Complex at Dhaka”**

**Bangladesh National Museum**

**Report Submitted To**

**Md. Mahabubur Rahman**  
**Executive Engineer**  
Dhaka PWD Division-4  
Executive Engineer Office  
Public Works Department  
Ministry of Housing and Public Works  
Peoples Republic of Bangladesh.



**Report Prepared By**

**Sustainable Research and Consultancy (SRC) Ltd.**  
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Web Email: [md@srclbd.com](mailto:md@srclbd.com)



**Sustainable Research  
and Consultancy (SRC) Ltd.**

Received  
13/9/2020  
Valloyam Kuch  
SDF-5, PWD  
(কল্যাণ কুমার কুড়)  
উপ-বিভাগীয় প্রকৌশলী  
ঢাকা গণপূর্ত উপ-বিভাগ-৫  
নেত্রবাড়ি, ঢাকা।





## Bangladesh Association of International Recruiting Agencies (BAIRA)

Date: 01.09.2020

### To Whom It May Concern

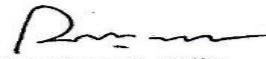
We the Executive Committee (EC) of Bangladesh Association of International Recruiting Agencies (BAIRA) are decided to appoint Sustainable Research and Consultancy Ltd. (SRCL) as Consultant firm for different national and international project management. We decided this agenda at EC meeting dated 9<sup>th</sup> March, 2020 with presence of President, Secretary General and all other members of EC. According to our discussion, BAIRA will perform as employer and SRCL will perform as consultant firm. Mr. Abu Jubayer from SRCL will accomplish as a chief coordinator by way of secretary on behalf of Project Management Unit (PMU) of BAIRA and complete all the project relevant works as necessary as part of consultancy.

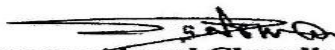
Through this appointment BAIRA will receive different fund facilities like as, apply different national and international fund, skill training with fund for migrant, infrastructure development fund, different Govt. project fund, BAIRA members training institutes development, different new skill (care giver, nurse, old care, baby sitters, security guards and others) development, project management facilities and other relevant activities.

As we discussed the Chief coordinator Mr. Abu Jubayer will work for different donor based projects like SEIP, STEP, ASSET, SUDOKKHO, Be Skillful, ASTHA and like all others, different Govt. based projects from diverse departments and other relevant projects as necessary. The consultant team will contact with others (Govt. projects and donor based program), procure a project and run the project with all relevant doings. All level of training centers and trainers relevant to project will attach with this PMU. The consultant team will attain all kinds of official facilities from BAIRA, running an office at BAIRA Bhaban, attend official meeting, using official identities and all other related facilities as necessary. The team will direct report only to President and Secretary General of BAIRA.

The Executive committee of BAIRA appoint SRCL from 10<sup>th</sup> March 2020 with consent of all EC members for conducting all kinds of project works and relevant activities. After getting the project fund SRCL will receive **Percent**) of total project fund volume as their consultancy fees for each project procurement. All other relevant financial interests and activities will be managed and distributed as signed contract among BAIRA and SRCL.

We undersigned people are informed, interested and assigned to SRCL for all kinds of mentioned project management of BAIRA. Please do help all the consultant team members if necessary and we wish their success in long run.

  
(Benjir Ahmed, MP)  
President, BAIRA  
Benjir Ahmed, M.P.  
President, BAIRA

  
(Shameem Ahmed Chowdhury Noman)  
Secretary General, BAIRA  
Shameem Ahmed Chowdhury Noman  
Secretary General, BAIRA

  
(Abu Jubayer)  
Chief Coordinator, BAIRA  
Project Management Unit (PMU)  
Abu Jubayer  
Managing Director  
Sustainable Research and Consultancy (SRCL) Ltd.  
Taj Mansion, 28, Kawran Bazar, Dhaka.

BAIRA BHABAN- 130, New Eskaton Road, Dhaka-1000, Bangladesh. Tel: 88-02-9345587, 9348096, 9331244



**BKMEA**  
Bangladesh Knitwear Manufacturers & Exporters Association

"Working Today To Shine Tomorrow"

BKMEA/Letter/2020/09/4789

Date: 20.09.20

To,  
Abu Jubayer  
Managing Director  
Sustainable Research and Consultancy Ltd. (SRCL)  
28, Kawran Bazar, Dhaka-1215.

### **To Whom It May Concern**

**Subject: Reply of submitted Expression of Interest for "Mutual Collaborative Fund Raising Program for 4th Industrial Revolution (4IR) Activities in Bangladesh".**

Dear Mr. Abu Jubayer, According to our discussion (at BKMEA, Dhaka Office, Dated: 07.09.2020, Time: 10.30 am) the 4<sup>th</sup> Industrial Revolution (4IR) Activities are important for Bangladesh Knitwear as well as other sectors. Our technical team found your EoI and read carefully. After general discussion, we are interested to start further activities relevant to 4<sup>th</sup> IR in Knitwear sector by making a team jointly.

Please submit your full proposal with general terms and conditions from your organization to BKMEA officially. We'll revise your proposal as well as presentation with technical team and after getting clearance from EC members we'll start work by making a joint team as soon as possible.

Please submit the full proposal and we wish your success in long run.

Regards

Mohammad Naim,  
1<sup>st</sup> Vice President

**Bangladesh Knitwear Manufacturers and Exporters Association (BKMEA)**  
13/A Sonargaon Road, Banglamotor,  
Dhaka 1000.

**Head Office :** Press Club Bhaban (1st & 3rd Floor), 233/1, B.B. Road, Narayanganj-1400, Bangladesh  
**Phone :** +880 2 7640535, 7641295, 7641857, Fax: +880 2 7630609  
**Dhaka Office :** Planners Tower (4th Floor), 13/A, Sonargaon Road, Banglamotor, Dhaka-1000, Bangladesh  
**Phone :** +880 2 58615964, 58615910, 9670498, 9672257, Fax : +880 2 9673337  
**Chittagong Office :** Chamber House (4th Floor), 38, Agrabad C/A, Chittagong, Bangladesh  
**Phone :** +880 31 2514342, 2514345, Fax : +880 31 2514345  
**E-mail :** Info@bkmea.com, bkmea@bangla.net Log on : www.bkmea.com





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Cell # +88 01711 459 532  
Email:

# Continuing

Source: 07.09.2020/BKMEA/07

Date: 07.09.2020

To

**President**

**Bangladesh Knitwear Manufacturers and Exporters Association (BKMEA)**

13/A Sonargaon Road, Banglamotor,

Dhaka 1000.

**Subject: Submission of Expression of Interest for a "Mutual Collaborative Fund Raising Program for 4<sup>th</sup> Industrial Revolution (4IR) Activities in Bangladesh".**

Dear Sir,

Good day. The BKMEA is world recognized national knit sector leader organization working hard for development of its member's performance and earning foreign currency. Your organization is leading Bangladesh economy and gaining SDG 2030 since a long time.

We the Sustainable Research and Consultancy Ltd. (SRCL) is a govt. registered research and implementation based company working with 4<sup>th</sup> Industrial Revolution (4IR). Different donor organization and govt. ministry are interested to develop the 4IR practice and preparedness in Bangladesh. Your organization is doing a lot of work in this field and we also want to improve with your team at matching field.

Our team can formalize new project and procure the fund from different organizations and donor agencies. We are interested to make a collaboration program with BKMEA with due permission of you and your executive committee.

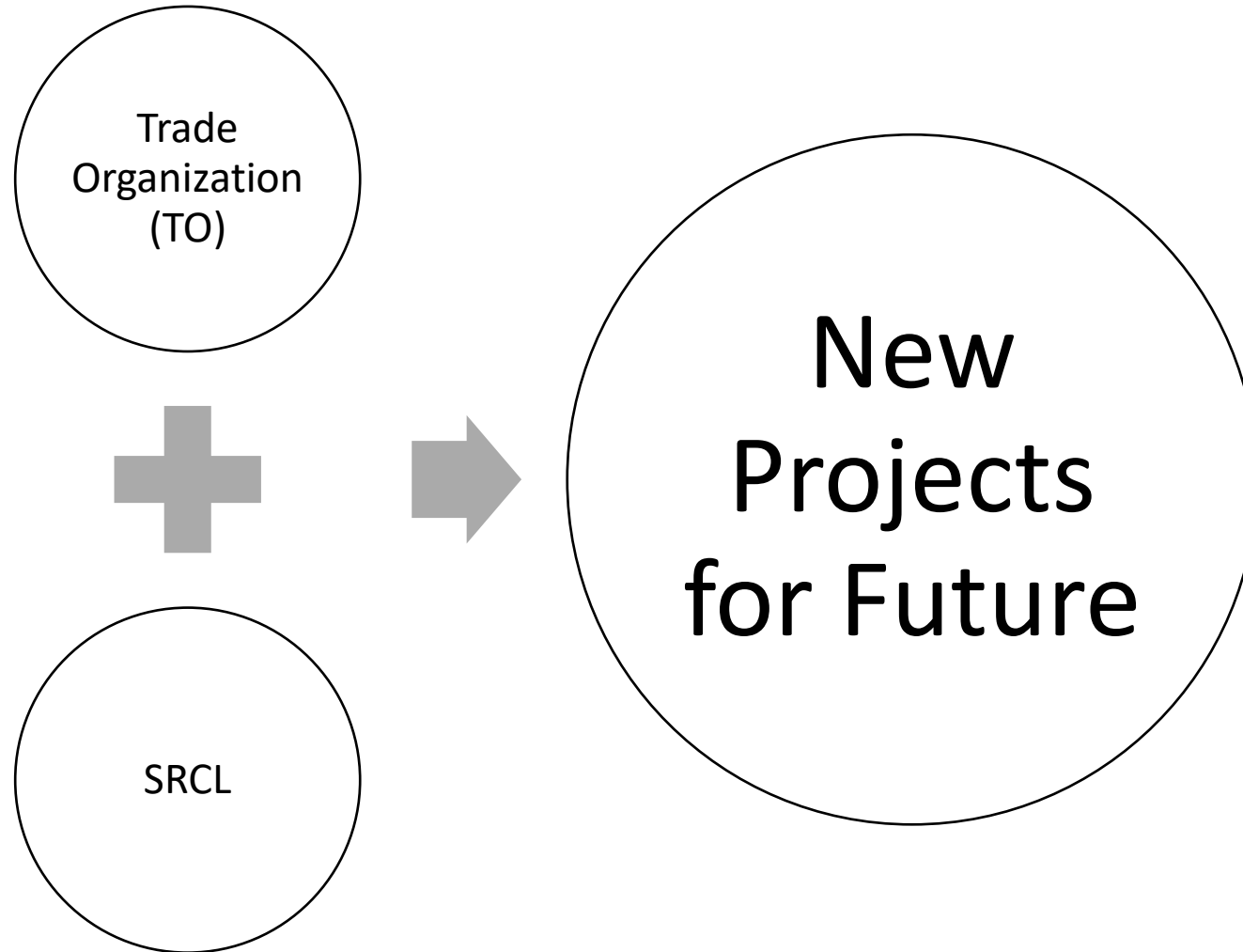
A proposal is attached herewith for your ready reference. Please accept our EoI and if you agree we can work together in short future. Thanks in advance for your cooperation.

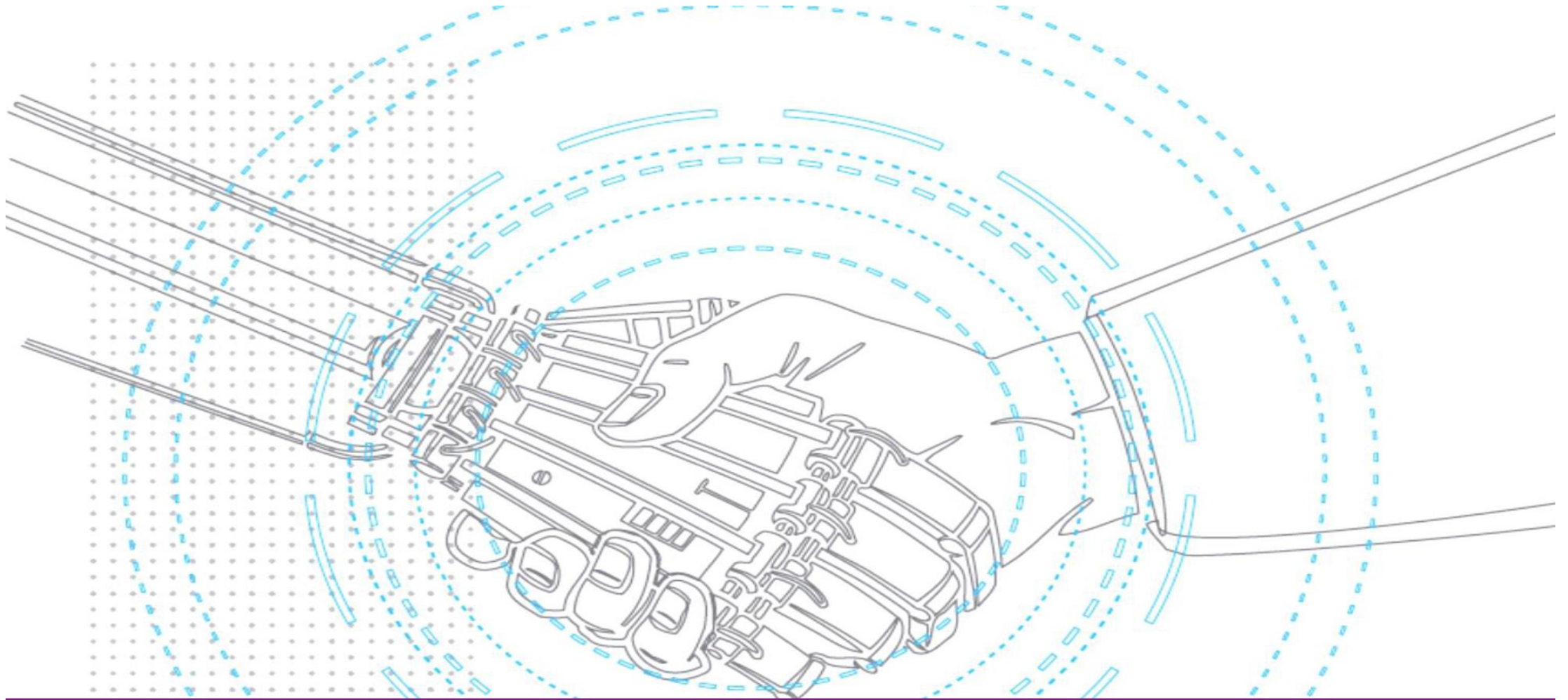
**Sincerely Yours**

**Abu Jubayer**  
Managing Director  
Sustainable Research and Consultancy (SRC) Ltd.  
Mansion, 28, Karwan Bazar, Dhaka.



# Collaboration Point





**THANK YOU**