TiCON

Lets Enjoy Power of Solution

Technology

innovation

COmmunication

Network

amazon web services | Partner Network

ADVANCED TECHNOLOGY PARTNER

In Partnership With

BANGLADESH HI-TECH PARK AUTHORITY

ISO Certified

CERTIFIED ISO 9001:2015 COMPANY

ISO 27001 Certified

ISO Certification

ISO 9001:2015

With ISO 9001:2015 Registered Quality Management System, we are dedicated to meet our client requirements the first time, on-time and every time. We firmly abide by our ISO Certification, so that our clients can feel confident in our competences to fulfill their IT outsourcing needs, of any volume and complexity. We regularly track, appraise and improve our processes and procedures to ensure compliance with international quality standards and to provide the best quality experience to each of our clients.

ISO 27001

These standards provide good practice guidance on designing, implementing and auditing Information Security Management Systems to protect the confidentiality, integrity and availability of information. It is designed to ensure the selection of adequate and proportionate security controls that protect information assets and give confidence to interested parties. The Information Security Systems are reviewed and monitored on an on-going basis to ensure continual good practices.

In a Partnership With

BANGLADESH HI-TECH PARK AUTHORITY

Bangladesh Hi-Tech Park Authority (BHTPA) has allotted three acres of land to TiCON System Ltd. at the Bangabandhu Hi-Tech City at Kaliakoir for R&D and manufacturing of electronics products. Bangladesh Hi-Tech Park Authority and TiCON System Ltd. have signed an agreement.

TiCON System Ltd. is in the process of securing foreign investment for Research & Development of products based on Artificial Intelligence (AI), Machine Learning (ML), Internet of Things (IoT), IPTV Set-top-Box(STB) and Over-the-top(OTT) technology and tools.

![TICON - Lets Enjoy Power of Solution]

Our aim is to develop and implement powerful solutions while working on innovation and unleashing creativity.

Some say you have to be ruthless to grow your business. But we know the better way. Our mission is what drives us to do everything possible to expand business potential, even beyond expectations. We do that using the power of technology and some bright young talents across the country.

Always Improving
Committed to the client, creative problem solving, and continual improvement.

Team Focused
Developing a culture of high-functioning and supportive teams.

Performance Driven
Demonstrating initiative in supporting the client's goals and overall strategy & deliver accordingly.

Honourable & Respectful
Contributing to a work environment that honors and respects the needs of each stakeholder.

Expertise Matters

🚩 **First AWS Advanced Technology Partner in Bangladesh**

🚩 **First Well-Architected Independent Software Vendor(ISV) in Bangladesh**

BlessBit achieved first ever AWS ISV (Co-sell with AWS) in Bangladesh

Total Digital Media & OTT solution 'BlessBit' are highly awarded by our customers and industry analysts, AWS will promote 'BlessBit' to prospective clients all over the world.

aws | **TICON**
Lets Enjoy Power of Solution

- Cloud Deployment
- Cloud Migration
- Consulting Services
- Professional Services

aws partner network
Advanced
Technology Partner

aws partner network
Reviewed

TICON
Lets Enjoy Power of Solution

Values We Carry

Resonates with the ideas of relationships, mitigating disputes, companionship, and teamwork.

Symbolises specialised knowledge, esoteric techniques and growth.

T

i

N

C

O

TICON
Lets Enjoy Power of Solution

Represents the self, our intuition and insight in our work.

Represents Communication and the inner spiritual seeing and hearing faculty.

Symbolises wisdom, third eyes, understanding, faithful and responsible.

www.ticonsys.com

TICON
Lets Enjoy Power of Solution

Culture

Smart & Agile

We hire smart and agile people who are forward and want to become leaders. That's why more than 80% Of our people have been with TiCON for over five years.

Freedom & Imagination

We value Individuals & their needs over processes & rules. We want our people to he creatve& freeth clung, so we never force them into dosed procedures.

Communication & Interaction

We value continuous communication between our customers and us. A product is only as good as the needs it serves. We always focus on the customer's wants & needs.
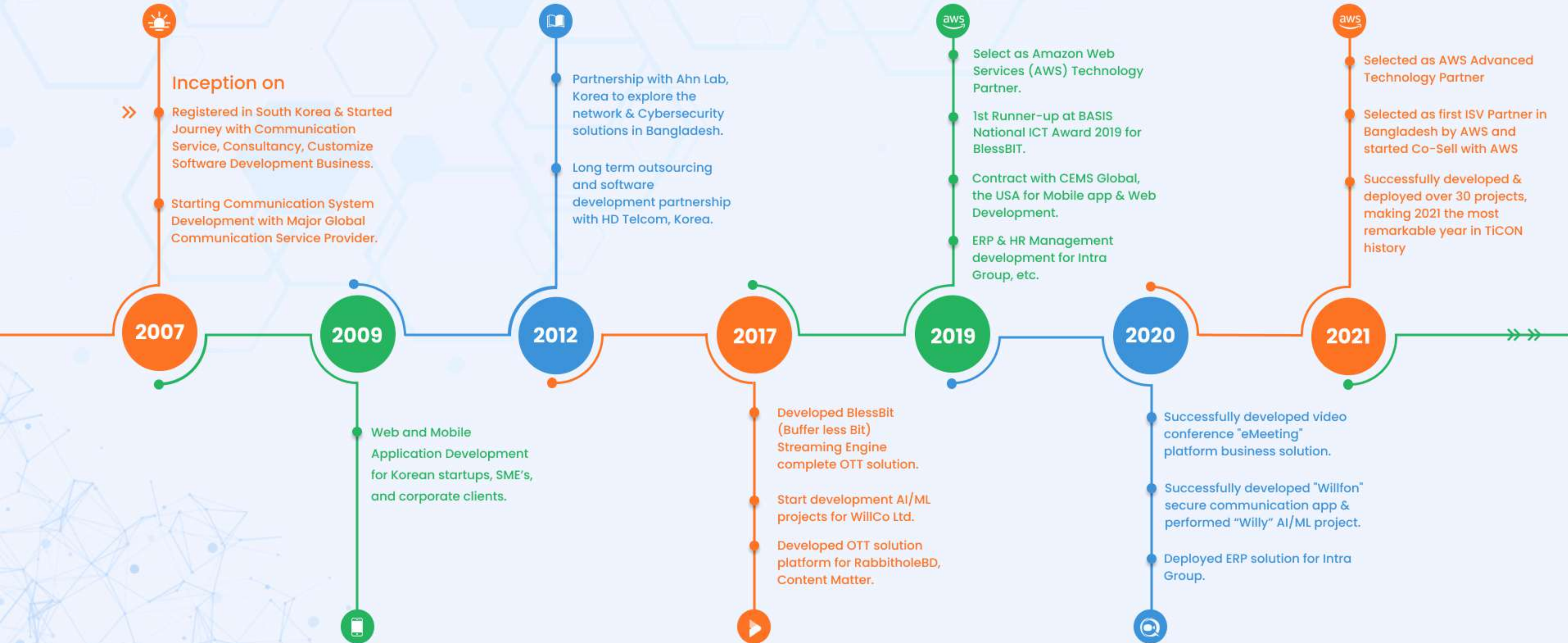
Start-up Mindset

We maintain a start-up culture where every employee's opinion is valued and appreciated. At TiCON, we like to challenge ourselves by analyzing any idea's pros and cons.

Workplace & Lifestyle

We offer a workplace where everyone can keep a healthy way of life and truly feel at home. A happy employee is also an efficient and productive one.

TiCON

Journey

Inception on

2007

Registered in South Korea & Started Journey with Communication Service, Consultancy, Customize Software Development Business.

Starting Communication System Development with Major Global Communication Service Provider.

2009

Web and Mobile Application Development for Korean startups, SME's, and corporate clients.

2012

Partnership with Ahn Lab, Korea to explore the network & Cybersecurity solutions in Bangladesh.

Long term outsourcing and software development partnership with HD Telcom, Korea.

2017

Developed BlessBit (Buffer less Bit) Streaming Engine complete OTT solution.

Start development AI/ML projects for WillCo Ltd.

Developed OTT solution platform for RabbitholeBD, Content Matter.

2019

Select as Amazon Web Services (AWS) Technology Partner.

1st Runner-up at BASIS National ICT Award 2019 for BlessBIT.

Contract with CEMS Global, the USA for Mobile app & Web Development.

ERP & HR Management development for Intra Group, etc.

2020

Successfully developed video conference "eMeeting" platform business solution.

Successfully developed "Willfon" secure communication app & performed "Willy" AI/ML project.

Deployed ERP solution for Intra Group.

2021

Selected as AWS Advanced Technology Partner

Selected as first ISV Partner in Bangladesh by AWS and started Co-Sell with AWS

Successfully developed & deployed over 30 projects, making 2021 the most remarkable year in TiCON history

TiCON

Achievement

1st AWS Technology Partner in Bangladesh
Achieving first APN that provides specialized services designed to help enterprises adopt, develop, and deploy complex projects on AWS.

National ICT Award, 1st Runners Up 2019, Business Service Solution Category
Bangladesh Association of Software and Information Services

Professional Excellence Award Achieved by TICON CEO
Korea IT SME and Venture Business Association

Member of

BASIS
Bangladesh Association of Software & Information Services

KOSA
Korea Software Industry Association

KBCCI 한방상공회의소
Korea-Bangladesh Chamber of Commerce & Industry

지능정보산업협회
Artificial Intelligence Industry Association

방글라데시 컴퓨터 সমিতি
Bangladesh Computer Samity
The ICT Industry Association of Bangladesh

BANGLADESH HI-TECH PARK AUTHORITY

Client's	**Years of Experience**
50+	15
Products	**Projects**
15+	100+

Development Methodologies

Agile

- Plan
- Design
- Develop
- Test
- Release
- Feedback

DELIVER INCREMENTALLY

INSTEAD OF ALL AT ONCE

Scrum

- DEPLOY
- TEST
- DEVELOP
- LAUNCH
- DESIGN
- PLAN
- REVIEW

DevOps

- Continuous Business Planning
- Collaborative Development
- Continuous Testing
- Continuous Release
- Continuous Monitoring
- Collaborative Customer Feedback
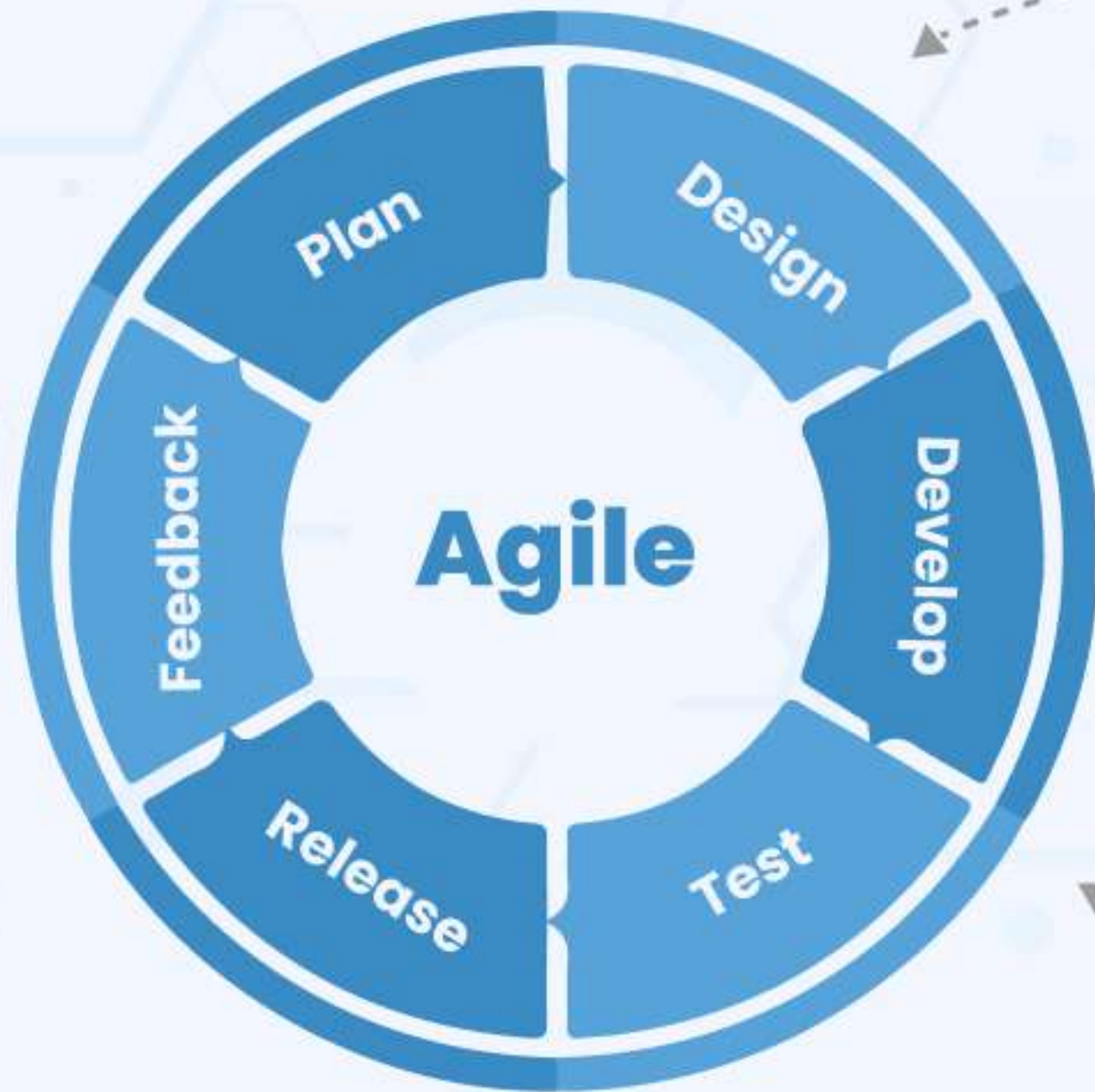
- **Tools used:** JIRA, Bugzilla, Kanban board our Agile tools.

- Interactive iterative Development used for faster iterative customer delivery.

- The cross-functional team also has senior resources for quick design decisions
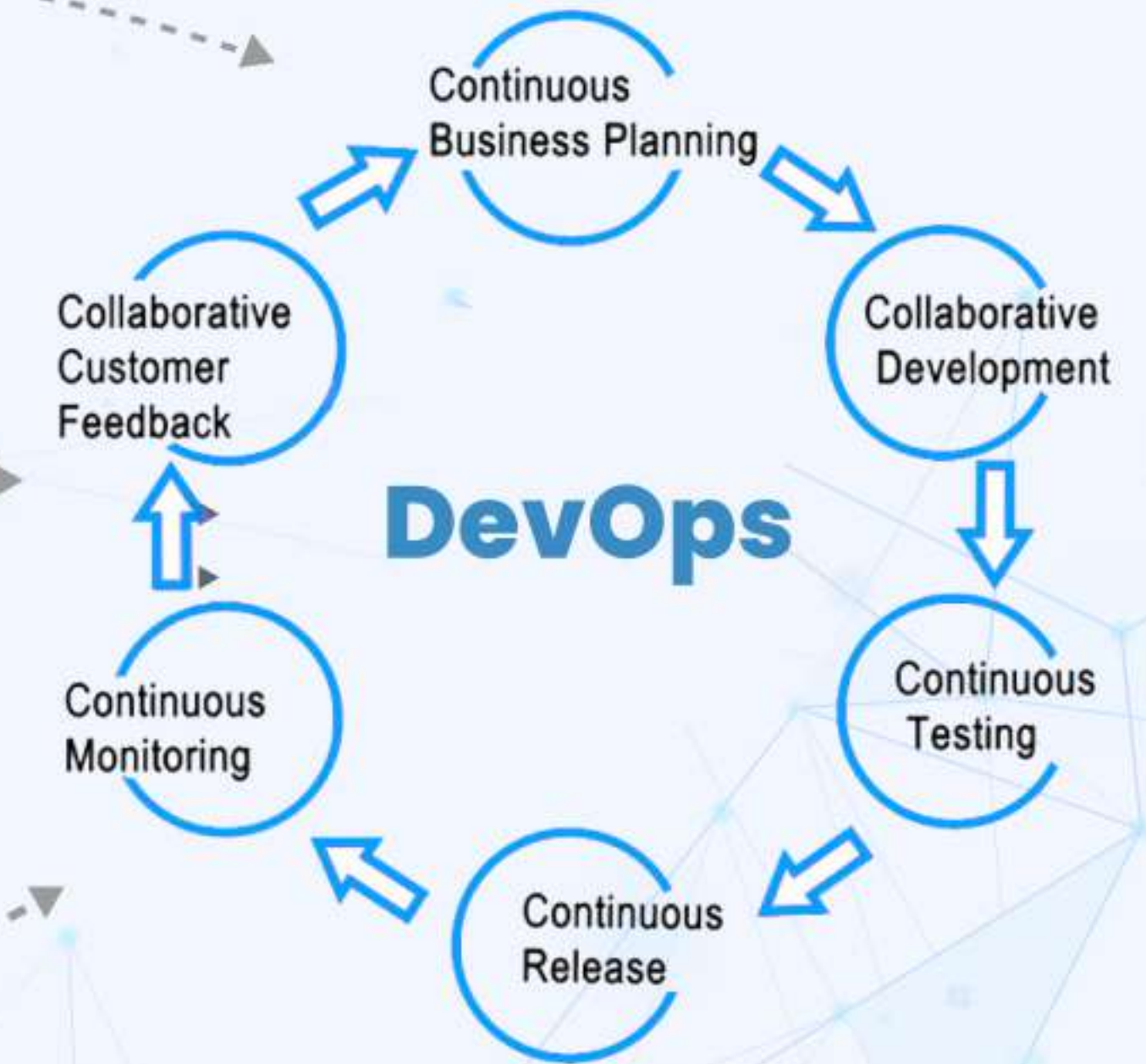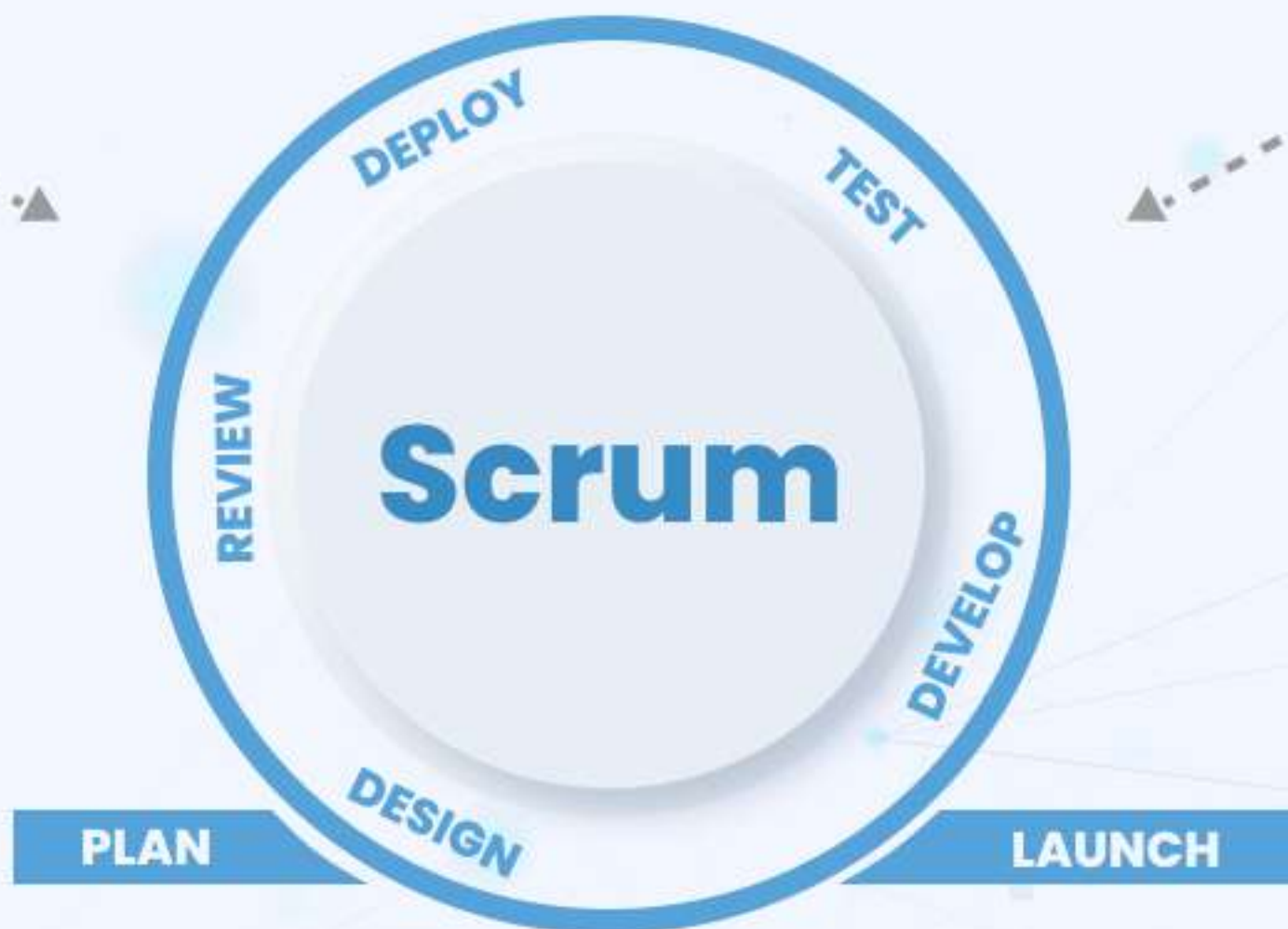
- **Tools used:** AWS OPSWorks, AWS CodeDeploy, Puppet, Chef, are our DevOps tools.

- Aims to shorten the systems development life cycle and provide continuous delivery with high software quality.

TICON

mDO – Managed Development Oversight

Inception

Analysis & Design

Customer Feedback

Customer Feedback

Requirments

Project Management & Configuration Management

Developmment

Customer Feedback

Customer Feedback

Planning Next Iteration

QA/Testing

Deployment

Software Engineer

Project Manager

Core Team

UI/UX

Business Analyst

QA/TEST
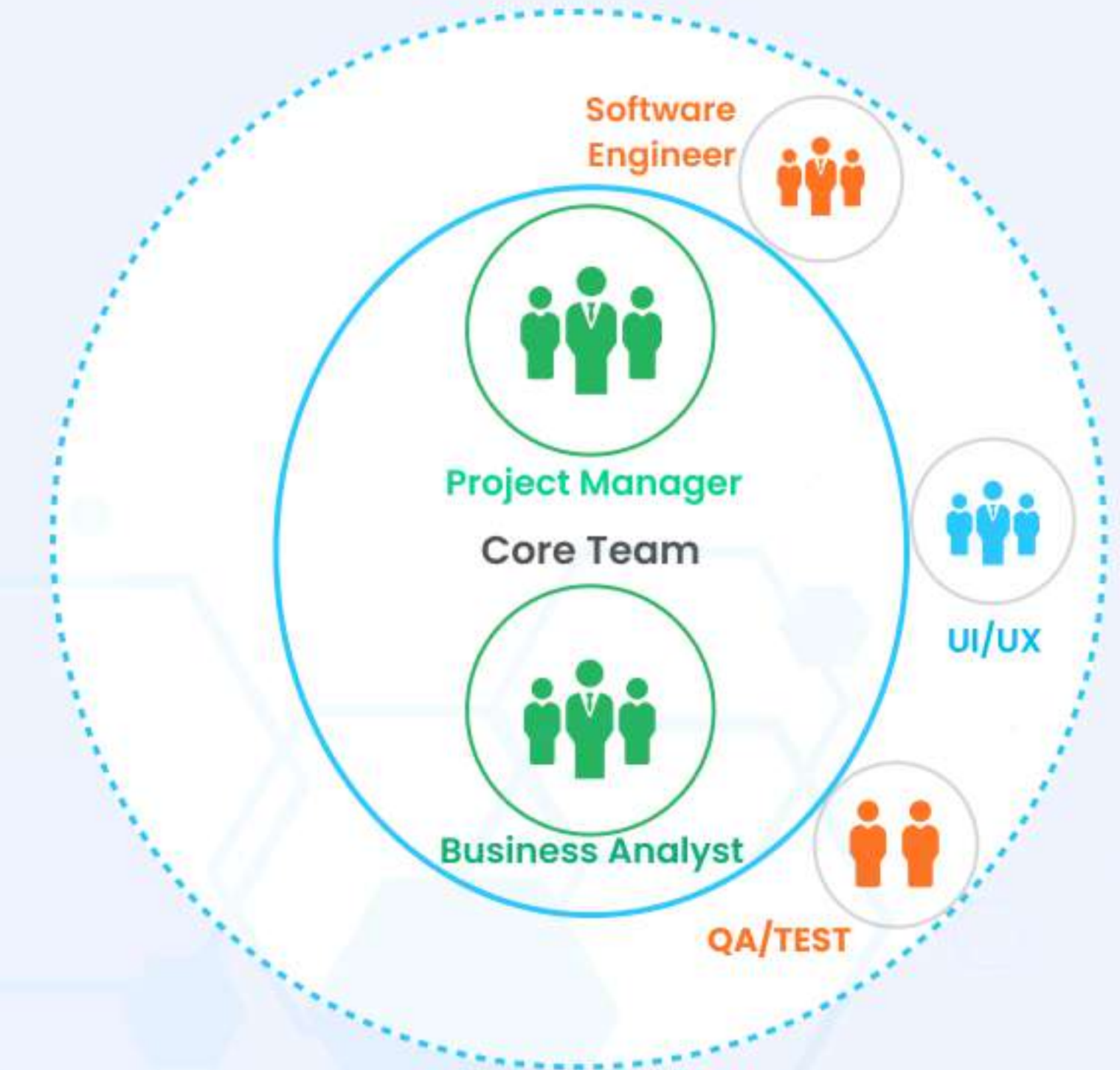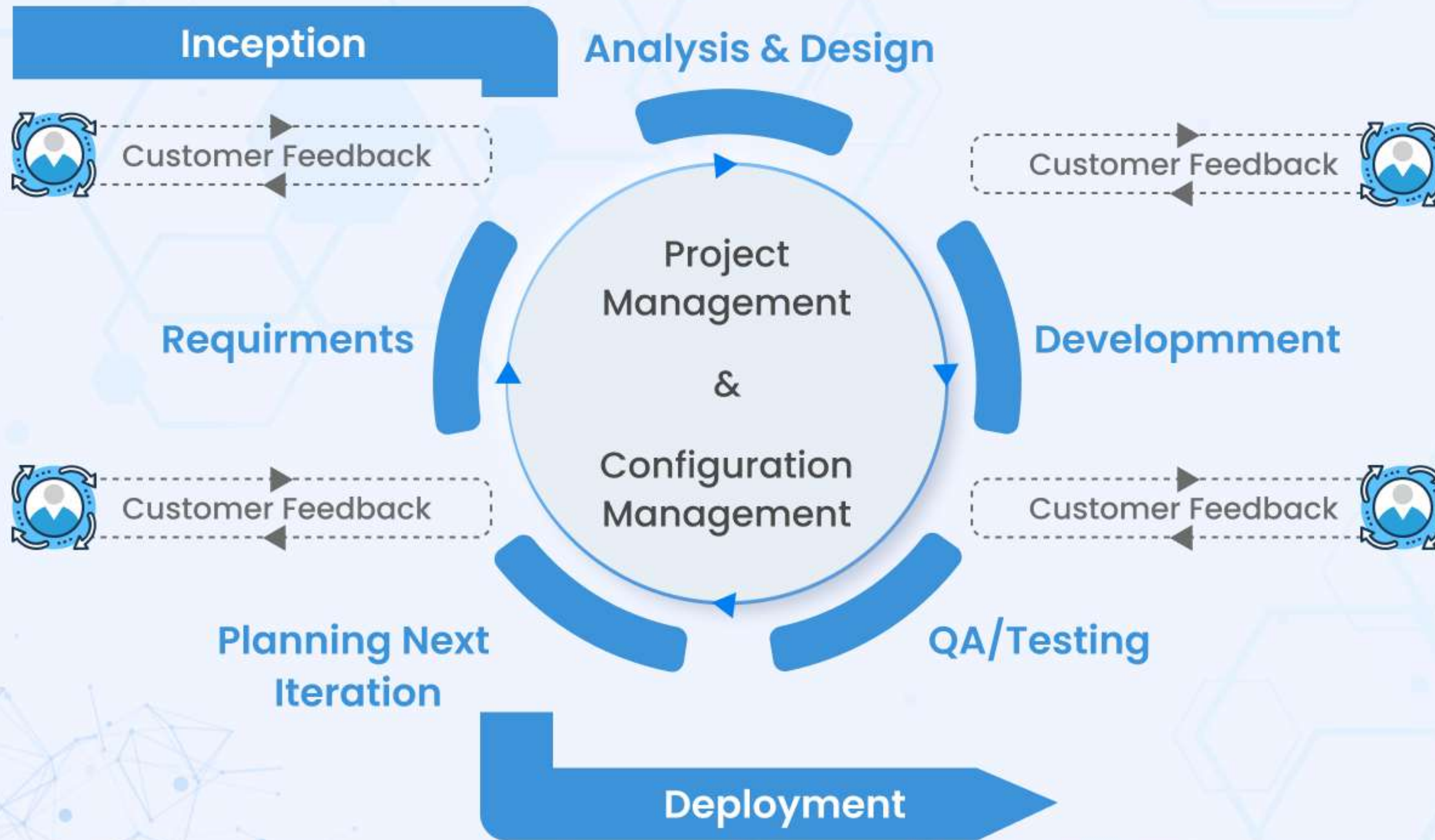
TiCON Team

Technology

1. Communication Technology

Business Scope
- Audio and Video Calling
- Instant chatting, group chatting
- Group meeting/conferencing
- Recording
- Host/Co-host features
- Raise hand
- Chatting with translation

Using technology, protocol
- WebRTC
- SIP
- Audio/Video Codecs
- WebRTC API

2. Streaming Technology

Using technology, protocol
- JAVA
- Android. iOS
- Node.js, PHP
- Python

Business Scope
- Live and VOD broadcasting
- Multi bit-rate transcoding for Live and VOD
- Live and VOD AD management   and Ad push
- Asset management (VOD contents management)
- Highly secured content delivery
- Real time subtitle generator
- Web and smartphone (Android & iOS) apps
- Customizable Analytics and reporting panel
- Access control/Geo-restrictions for contents
- Deploy on Cloud or traditional datacenter

3. Mobile & Web Technology

Web Technology
- Jquery, React, CSS 3, AngularJS, Bootstrap
- PHP, Node.js, Python, ASP.NET
- MySQL, Oracle, MongoDB, SQL Server, Redis
- Wordpress, Magento, Drupal, Opencart
- REST, SOAP, JSON, XML
- Memcached, Redis

Business Scope
- Start up project
- Business Solution
- Education Platform
- LBS (Location Based Service)
- Ecommerce, Market Place ETC

Mobile Technology
- iOS, Android, Windows, Cross Platform
- JSON, REST, SXML, SOAP, LDAP, SQL, RSS, SSL
- Database, Third-Party Web Services
- Android Studio, Swift, Open GLES, Objective C/C++, JavaScript

4. AI/ML & Big Data

Using technology, protocol
- ML/NLP
- Apache Spark
- Supervised/Unsupervised model
- Python, Android, iOS
- STT/TTS
- Deep Fake

Business Scope
- Multilingual Chatbot (Voice controlled)
- Custom bot for business support
- Big data analysis
- Perform day-to-day tasks
- Control IOT/smart (bluetooth controlled) devices through voice command

Products

THEiA
- Voice controlled ML based AI powered chatbot
- Smart Robots & Virtual Personal Assistance
- BigData/ML/Deep Learning/STT/TTS
- STT Based Multi-language to machine-readable format
- ML with Deep Learning conversational model
- Improved User Experience
- Personalized & business service integration
- Cognitive Expert Advisors Service

eMeeting
- Standardization & Reduce Training / Operating Cost
- Real-Time Access to Information
- File & Billing Management
- Fixed/Recurring Rooms & Deployment Flexibility

TiCON
Lets Enjoy Power of Solution

BlessBit
- Turnkey OTT Platform (Live TV, VOD, Videos, CMS, Appstore)
- Engine for Media & content delivery
- Monetization through integrated Ad Pusher or payment processor for Live & VOD
- Billing & Content management system
- Analytics and Monitoring
- Media file transcoder system
- Customized OTT Platform Solution

BizPort ERP
- Simple Order Management
- Commercial Management
- HR Management
- Accounting Management
- Supply Chain Management
- Factory Management
- Production Management
- Financial Analysis & Report
- Total Analytics and reporting
- Access form Anywhere

Web/App/Crawling/feeding method image processor

AI-Based object detection & Image processor/editor

Image tags processor system for relevant image

Object-Oriented Smart image identifier & analysis platform

AI-Based Big Data experience

PixAl

HR & Payroll management for SME

Project & Asset management for SME

Accounting and invoicing tools

managR

Crawls for images, text & information can be used with web & AI Tools

Customizable according to crawling needs

Crawled information stored in DB or file system

kravLa

TiCON
Lets Enjoy Power of Solution

Face register/recognization

AI-Based Face detection process

Control/Storage/Process Integrated CMS System

API & third party & device integration

Enhanced capture algorithm

ML/AI-Based Big Data experience

FaceR AI
Smart Face Recogniger

SIP/WebRTC based calling application for C2C

SIP/WebRTC based calling application for internal communication

Messaging/texting application for internal communication or C2C

Translation for WebRTC based calls and messaging

TiFon

Track friends and family

Send SOS to friends and family

Always keep track of your kids movement

Keep track of your or your friends & families driving activity and driving map

Be notified when your kid is out of home or school area

Battery life alerts to friends and family

Geo Track
Family Locator

TiCON

Inventory Management
User Management
Group Management
Supply Change Management
Inventory Reports
Product Movement Reports

DIS ERP

Inventory Management
Supply Chain Management
Procurement & Purchase
Access Layer Control
Invoicing
Delivery
Reports

Intra ERP

Package management
User Management
App Management
Earning History
Withdrawals

MLM Management System

TiCON
Lets Enjoy Power of Solution

CORONA BOT
Update Daily corona info
Web-based corona update platform
Available emergency contact
Number of corona affected people history is available also

CLOUDACCOUNTICA
Admin can upload excel file of all user's payment info
Can create a new user
User can check their payment history, payment amount and the due date

희와초
Phone Number verification
QR code generate using passengers information
Retrofit, Room Database

선박 출입
Phone Number verification
QR code generate using passengers information
Retrofit, Room Database

선박 출입 관리
QR code And ID card scanner
Google Cloud Vision API
Retrofit, Room Database

15

TiCON

Unlimited and fast access to more than thousands hours of TV shows, movies, comedies, sports and documentaries from First Media.

TVSTORM becomes recognizable from customers and partners not as an Android open platform group but who possesses accumulated broadcasting expertise in next generation media market as an end to end solution provider.

HeartMonitor app monitors users health specially heart condition by taking input from user & monitor/compare all information regularly. It also helps user with diet, in partnership with NAVER Korea.

IOT based electronegative web interference detection project.

Shoppluz	Shoppluz is a fully featured multivendor e-commerce engine.
seaMi	Underwater Object Detection with smartphones using latest Computer Vision technology.
WDEEPFAKE	• Voice cloning with custom voice • Lip syncing in video with custom audio
KD (Korean Ad Portal)	KD is a ad management system with in-app ads features.
ROUND AI	The Round AI is an application that allows you to easily control and utilize a 720-degree home CCTV camera equipped with 2 fisheye lenses. After installing the Round AI app on your smartphone, you can check recorded videos along with the real time live videos by connecting the camera to the internet via WiFi. You can also easily share recorded videos and images using the export function.

TiCON

ROUND Conference

- Online classroom application for Mobile / Desktop / Web
- Video Conference
- Realtime messaging

JVISION

- On demand video content platform for OTT
- Latest movies
- Based on japan

CHVOD

- On demand video content platform for OTT
- Based on Korea

WILL ACCESS

- Detect Face in real-time
- Check Attendance history

KICONbay Beta

KICONbay is a online buffer free cartoon streaming platform.

EDUBAY	Online classroom with whiteboard facilities with HD video, audio, collaboration & chat.
PopTag	Detect Object & show similar images.
WillSub	Looking for an online and automatic subtitle generator for your videos? WillSub is here for you.
DetectFoto	• Detect Object, face expression of human, text • Analyze Video frame.
Telemedicine	• A Facebook chatbot where you will receive the doctor's available time and you can confirm appointment • Get basic instruction for good health

www.ticonsys.com

TICON

THEiA

Technology · Business Case

Technology

Core Technology

Python, NLP, Deep Learning,
STT, TTS

Frontend

(Html, css, js)

Backend

Python(Django, Django
RestFramework)

SmartPhone

Android(Java),
IOS(Objective C)

Database

Mysql

Third Party Services

Google Cloud, AWS
Cloud, Open Weather

www.ticonsys.com

TICON

Google Cloud

AI Platform: Using to build, deploy, and manage machine learning models.

Cloud AutoML: Using for AutoML Vision & AutoML Translation to train custom machine learning models AI.

Building Blocks: Using for sight, language, conversation, and structured data into applications.

AI Infrastructure: Using for training deep learning and machine learning models cost-effectively.

TensorFlow Enterprise: Using TensorFlow Enterprise to deliver enterprise-grade support, performance, and managed services for AI workloads.

AWS

Amazon Rekognition: Using for image and video analysis.

Amazon Transcribe: Using for speech-to-text capabilities in applications.

Amazon Polly: Using for text-to-speech capabilities in applications.

Amazon Sagemaker: Using to prepare, build, train, and deploy high-quality machine learning (ML) models quickly.

Amazon Translate: Using for efficient and cost effective real time translation (Live Subtitle etc.)

Current State of Big Data Analysis

English Conversation Model

For the English model, The ParlAI library implements the state-of-the-art Transformer architecture extending the encoder-decoder model with attention. Our fine-tuned model uses a blend of 4 different datasets with approximately 5 million conversational data samples. The model generates responses with a margin of the perplexity of 20%.

Japanese Conversation Model

For the Japanese model, we implemented the Transformer model architecture with BertTokenizer from the Huggingface library. We gathered approximately 2 million tweet data to use for the baseline model. The trained model could provide a response with a perplexity close to 60%. We are working on to lower down the perplexity with different model training strategies and decoding techniques. With more data and training we can decrease the perplexity.

TICON

Big Data Analysis Approach

Apache Spark:

The Apache Spark is a very good solution for the Big Data manipulation. Apache Spark is an open-source cluster-computing framework. Spark provides an interface for programming entire clusters with implicit data parallelism and fault tolerance.

D4M Layered Architecture:

D4M is a breakthrough in computer programming that combines the advantages of five distinct processing technologies (sparse linear algebra, associative arrays, fuzzy algebra, distributed arrays, and triple-store / NoSQL databases such as Hadoop HBase and Apache Accumulo) to provide a database and computation system that addresses the problems associated with Big Data. D4M significantly improves search, retrieval, and analysis for any business or service that relies on accessing and exploiting massive amounts of Digital Data. Moreover, The D4M Layered Architecture provides a robust environment that is adaptable to various databases, data types, and platforms.

TICON

How Theia Works

Machine Learning

Natural Langauge Processing

Artificial Intelligence (AI) → Processes → Outcomes

Predictive Analytics

Deep Learning

Sentiment Analytics
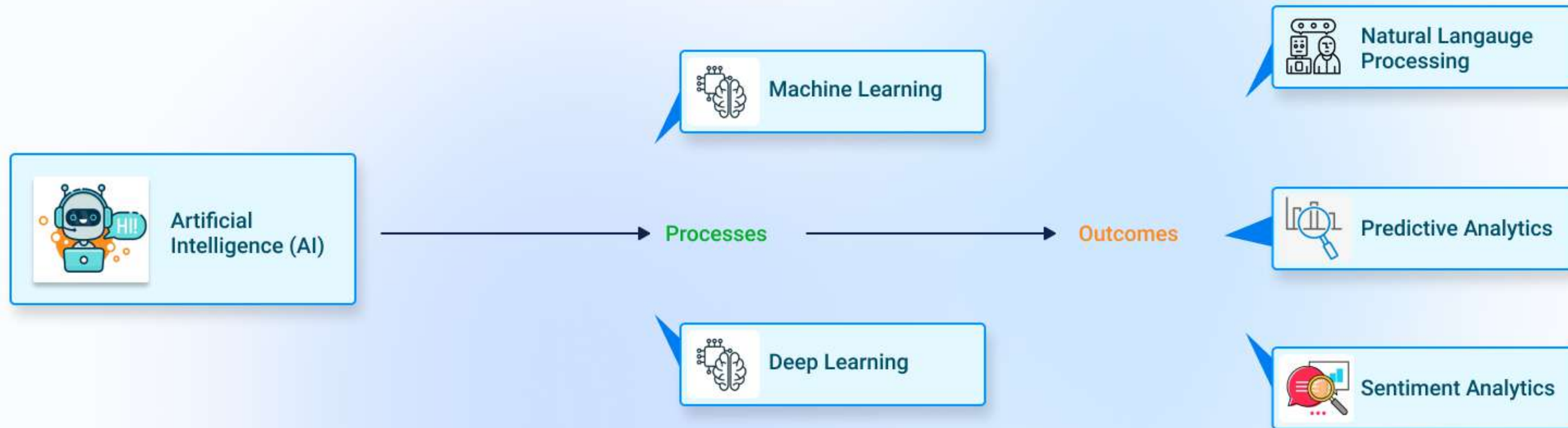
SMART HOMES | DIGITAL SMART ASSISTANTS | CHATBOTS | OBJECT DETECTION | FACE RECOGNITION | PERSONALIZED SERVICES

TICON

If we are able to feed enough data to our AI, this can be a Farmer's true friend!

What to plant, when to plant, what about seed, fertilizer, pest control?

1. Data Gathering

We have to feed existing/historical farming data from Govt. organizations, educational institutions, NGOs etc.

2. Big Data Analysis (Analyzing & Learning)

Based on our model, AI will analyze data and learn the time & process of farming perfectly

3. Use Chatbot

User's will be able to ask chatbot installed on their phone, any question they might have about local farming.

4. Auto Suggestion

Chatbot can auto suggest Farmer's everyday based on location, historical data & weather data.

5. Any interface

Just like existing chatbot, any other interface can be used. Even we can use old fashioned SMS/call service backend of which will be connected to our AI.

Our AI can be used to analyze incoming calls using our Big Data Models for AI to learn how & what to response

After initial learning period, AI can communicate & suggest solutions to users directly

Purchase Process Simplification

Personalized Service

User Experience Improvement

Service Integration Opportunity

Customer Care Improvement

Resource Saving

Chatbot Benefits for Business

TICON
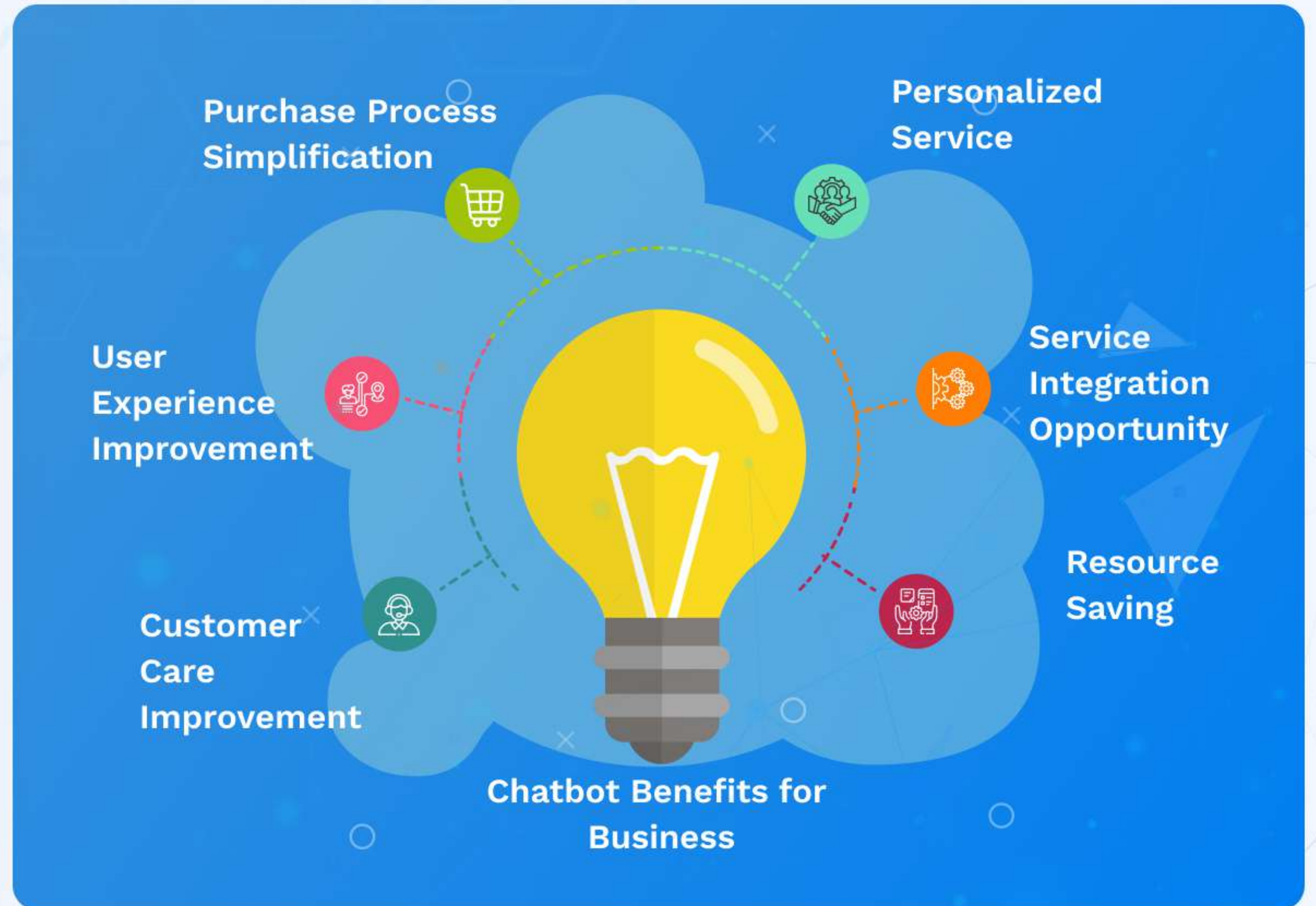
Skills

- Open/unlock door by determining owner presence through bluetooth/nfc in combination with GPS & touch on smartphone app

- Lock the door using the same technology and skill

- Turn smart devices on/off using skill and technology

Conversation

- Chatbot is trained using our Big Data Models for open domain conversations (Generative Model).

- Ask anything in several languages and continue a conversation

- The system can be deployed on smartphones, smart boxes or 3D models

- Ask for any information (weather, news, traffic, places like restaurants or banks, play music, jokes, alarm, reminder, call or text, voice change, calculator, corona update, interpreter, note taking or shopping list, food recipe, horoscope, wiki, quotes) or on any other topic.

THE SMART HOME

- Solar panels
- Access control
- Blind control
- Movement sensor
- Safety alarm
- Air-conditioning system control
- Video games console
- Smart TV

TICON

Smart City

Skills

- Announcers on all platforms, bus, metro and public places for accurate and timely announcements (even based on positioning and speed of bus, metro etc.)

- Assist on traffic control, all networks, toll booths, security camera, security camera video & image processing, trash collection, energy distribution etc.

Conversation

- Smart city app able to assist with routes, locations, places, map, city culture, local cuisine, tourist spots, activities etc. Travelers and locals are able to have conversations and learn these.

Smart City Control with Big Data Analysis

Smart Finance & Banking · Smart Transportation · Smart Utilities · Smart Environment · Smart Public Safety & Security · Smart Governance · Smart Amenities · Smart Buildings · Smart Education · Smart Health · Smart Retail & Logistics · Smart Mfg & Construction

Key Application Sectors for Smart Cities

TICON

- Reminder for patients, doctors and nurses about patient check-ups and medicine time.

- Reminders for serving food

- Announcements/notifications for patients, doctors, nurses and visitors

- Restrict and allow access through app smart access, restrict unwanted visitors at unwanted places/times

- Data collection and analysis using patient records

- Assist doctors and administration with facts and figures from analyzed data when requested

- Easy integration with health insurance system

- Continuously receive health data from patient even after leaving hospital and update doctor when necessary

- Update patient about any doctor/hospital with better result received from analyzed data

BlessBit

Technology   Business Case

www.ticonsys.com

Technology

Core Technology

JAVA (Transcoding, Authentication & Engine)

Frontend

HTML, CSS, JS, Codeigniter framework

Backend

Node.JS, PHP (CodeIgniter)

Smartphone

Android (JAVA/Kotlin), iOS (Objective C)

Database

MySQL, REDIS

AD Pusher

Python, FFMPEG

www.ticonsys.com

TICON

BlessBit

ANALYTICS

CONTENT RECOMMENDATION SYSTEM

AI BASED ADVERTISING

Blessbit CMS

- **Natural Language Processing (NLP)**
- **Transcription**
- **Computer vision**
- **Machine Learning**
- **Deep Learning**
- **Big Data Analysis**

TICON

Big Data Analysis

How It Works

Use

1. Find new insights from your analytics.

Artificial intelligence excels at finding insights and patterns in large datasets that humans just can't see. It also does this at scale and at speed.

For example, Which channel had the highest conversion rate? Our AI can also recommend actions based on opportunities it's seeing in your analytics.

2. Use analytics to predict outcomes.

Artificial intelligence excels at finding insights and patterns in large datasets that humans just can't see. It also does this at scale and at speed.

3. Unify analytics and customer data.

Using the speed and scale our AI powered analytics tool pulls together all your customer data into a single, unified view. It's also capable of unifying data across different sources, even hard-to-track ones like call data.

Process

- **Prediction:** Using short and long-term variability in data to enhance forecasting efforts.
- **Pattern recognition:** Understanding normal trends to spot anomalies, as is often the case in fraud detection.
- **Classification algorithms:** Grouping and organizing of data, includes clustering.

LIVE

S3

VOD

Recovered Upload

Analysis & Prepare

Authentication   Transcoding

Ready to Serve

AWS Amplufy

AWS LAMBDA

AWS Personalize

JPG/PNG

AWS Recognition

mp4 / mov

AWS Video Recognition

mp4 / mp3, wav

Transcribe

AWS Comprehend

TICON
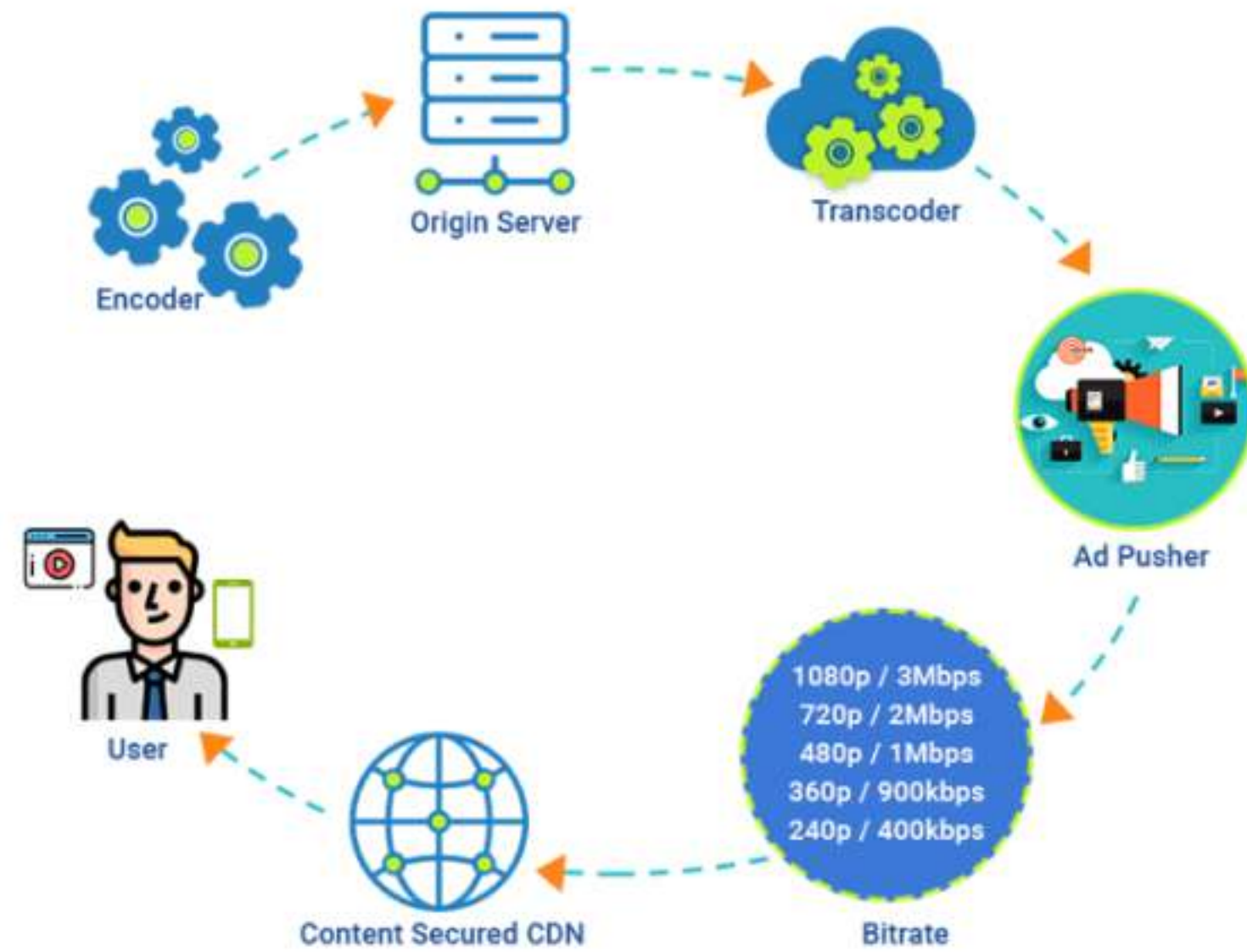
BlessBit

Live Broadcasting (Media)

BlessBit provides broadcasting solutions of events like sports, entertainment etc. Just provide us ingest URL (rtmp/hls) from your encoder, tell us a little bit about your audience and you are done. We do the rest for you. Just keep an eye on your analytics tool and take business decision as required.
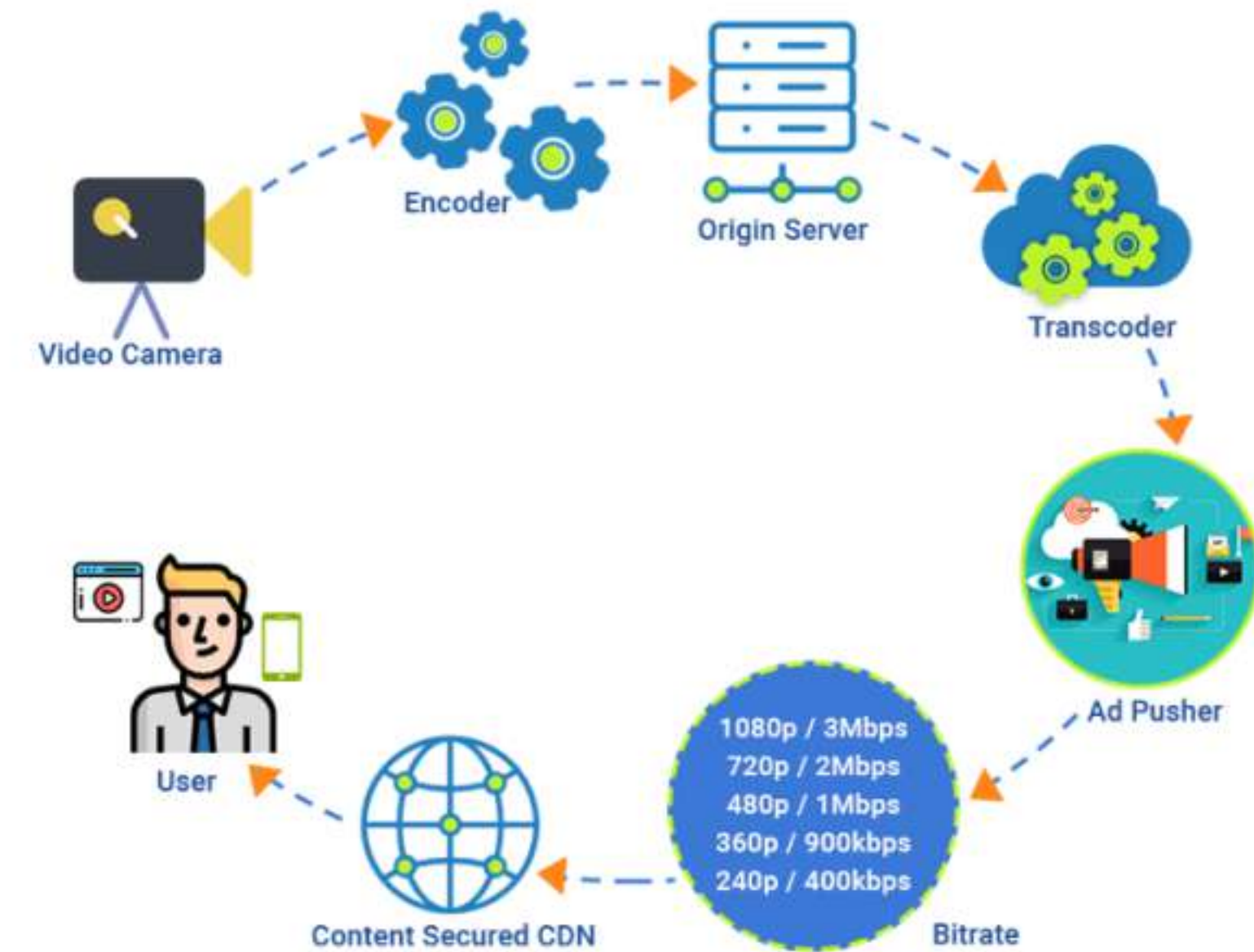
Live Broadcasting (Seminar/ClassRoom)

BlessBit also provides broadcasting solutions for Seminar or streaming your live class. You can use your own camera and provide us a feed or we can provide a complete solution for broadcasting your event online.
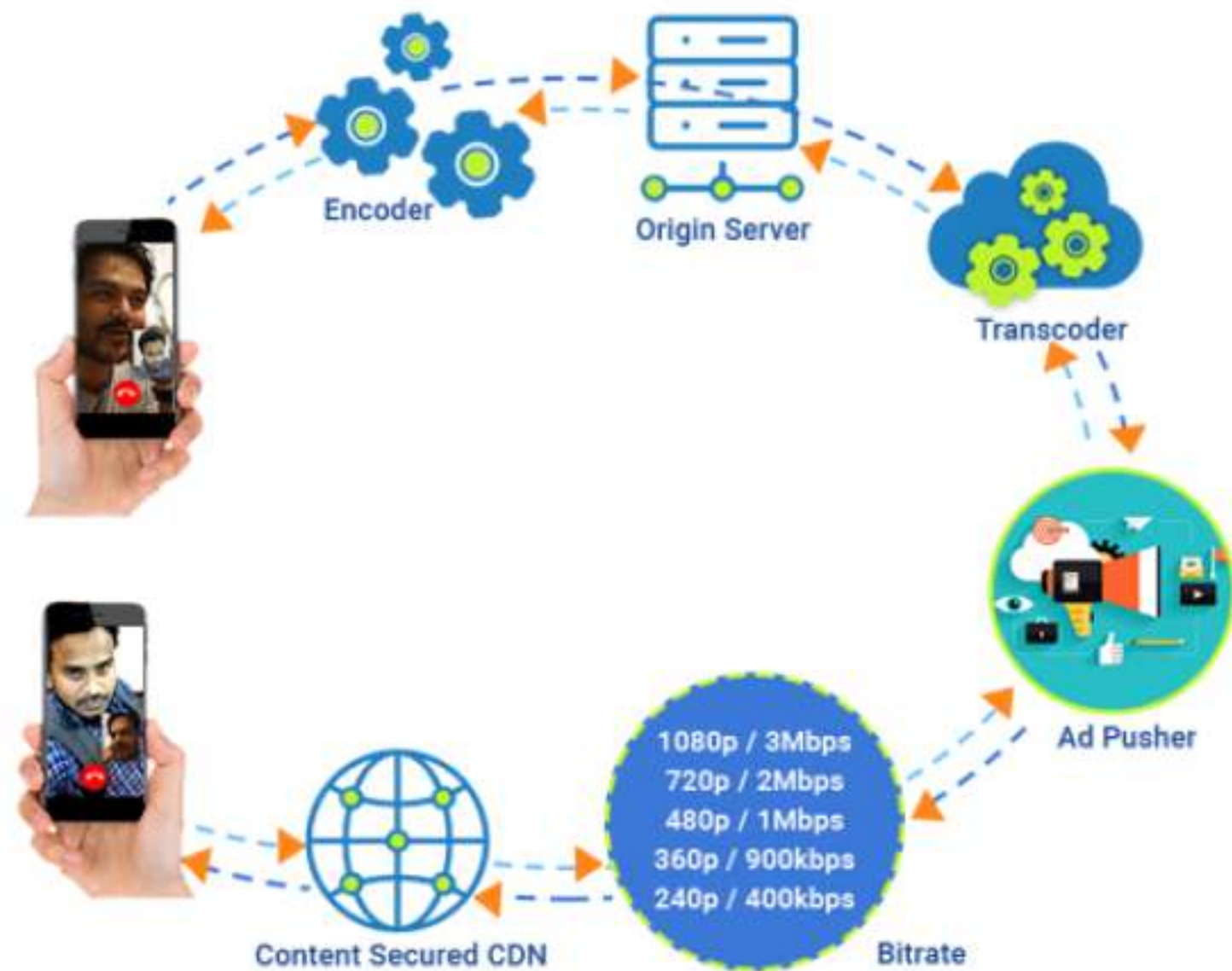
Call Conference Solution

BlessBit provides custom solution for Call Conferencing. Call conferencing solution varies depending on client's need. Please take a look at how our basic call conferencing works, but please keep in mind this is highly adjustable/ modifiable.
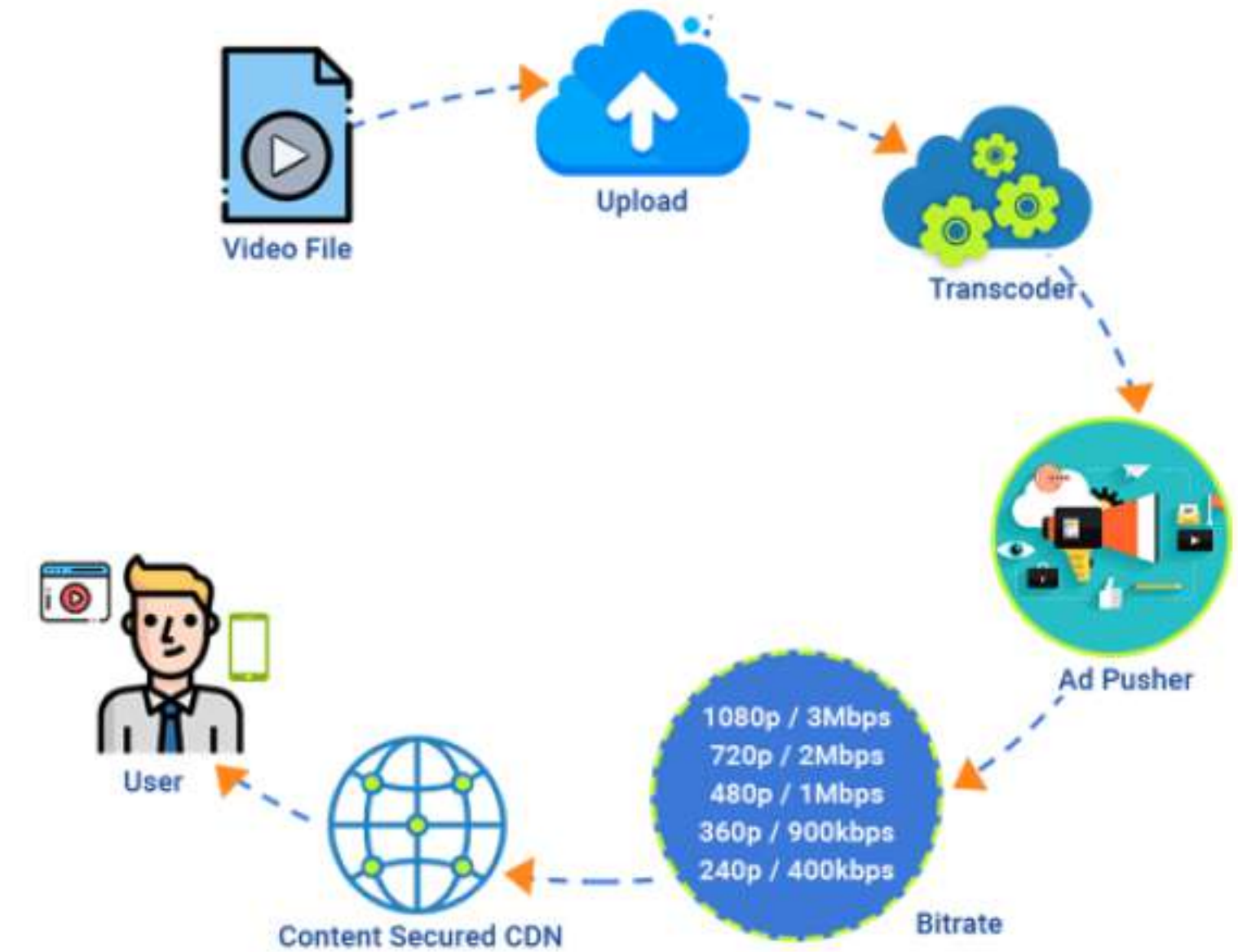
On-Demand Content Broadcasting

BlessBit also provides a custom solution for your VOD (ON-Demand) content. However big your content library is, we will ensure you a smooth transition to BlessBit. Choosing BlessBit for VOD will enable us to use our security system and Ad Push technology right away.

eMeeting

Technology **Business Case**

TICON

Technology

Core Technology

WebRTC, SIP

WebRTC Networking

P2P, MCU

Database

MySQL (inside EC2)

Frontend

HTML, CSS, JS, Codeigniter framework

eMeeting

Backend

Codeigniter framework, jquery, vanilla javascript , php

The WebRTC API

RTCPeerConnection, MediaStream, RTCDataChannel (Session Management)

SmartPhone

Android(Java), IOS(Objective C)

Desktop

Javascript (Electron Framework)

eMeeting

WebRTC
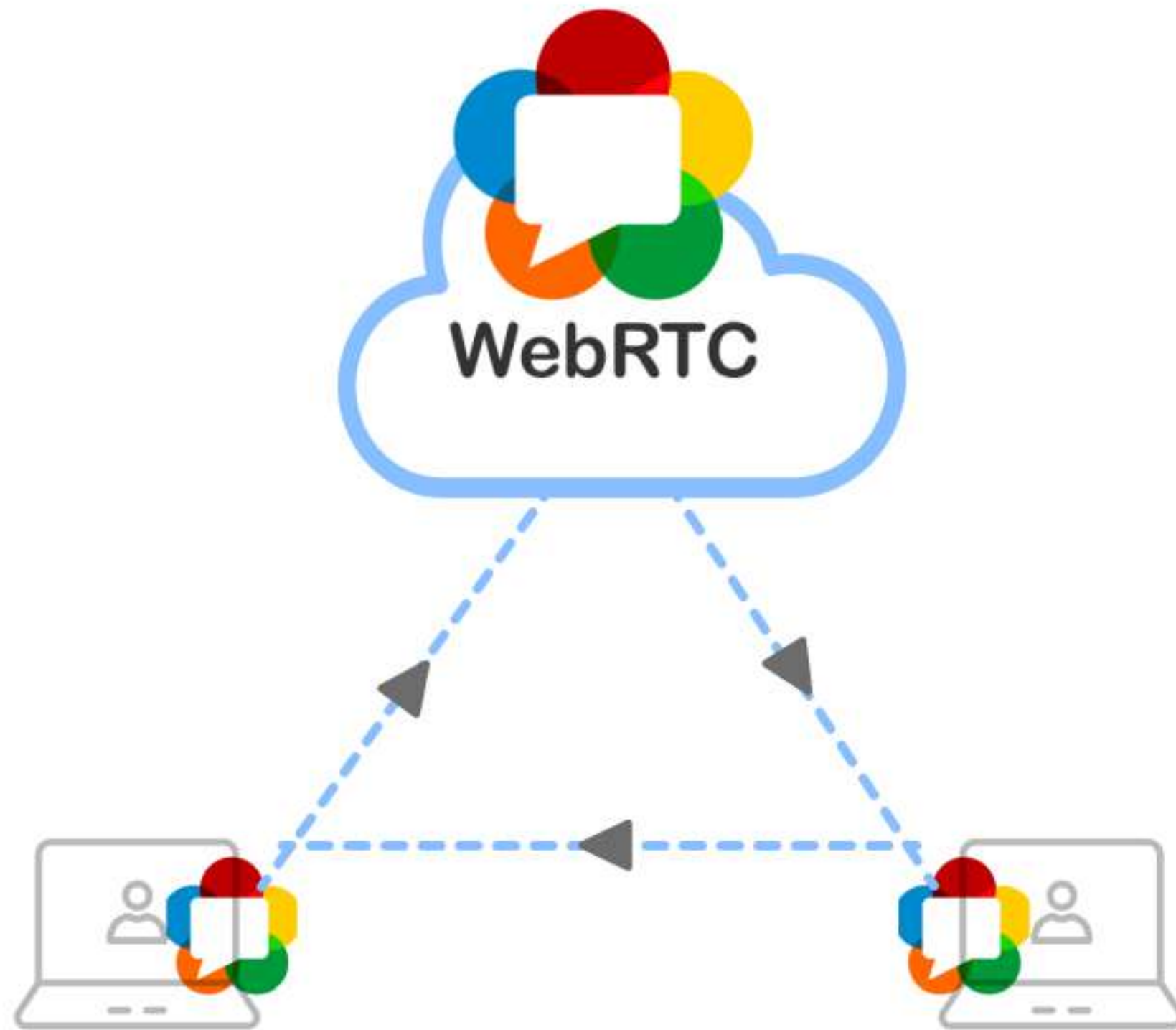
- **Audio – PCMU (G.711μ)**
- **Audio – PCMA (G.711a)**
- **Audio – Opus two channel**
- **Video – H.264/AVC (stereo)**
- **Video – VP8 , VP9 Licensed codecs**

TICON

Business Case

Business Industry

- Fixed Meeting Room for Teams
- One Time Meeting for Cross-Teams
- Highly Restricted & Secured Rooms
- Screen Sharing & Co-Host Facility
- Whiteboard
- Audio/Video Codecs
  - Audio - PCMU (G.711μ) (mono), PCMA (G.711a) (mono), Opus two Channel
  - Video - H.264/AVC (stereo), VP8, VP9.
- Fixed and Recurring Rooms
  - Create one-time meetings for cross team meeting or fixed rooms for team meetings, as you need it
- Deployment Flexibility
  - Deploy on cloud (managed by you or eMeeting) or deploy on-premise. Full functionality available in both cases, along with developer tools for integration.

Education Industry

- Fixed Meeting Room for Teams
- One Time Meeting for Cross-Teams
- Highly Restricted & Secured Rooms
- Screen Sharing & Co-Host Facility
- Whiteboard
- Simple registration for faculty /students
- Faculty/admin/class specific classrooms (Only intended students can enter the classroom)
- Grouping/categorizing of students
- High-quality video, audio, and screen share (slide mood) media delivery
- Present content effortlessly from your laptop or desktop with one-click sharing
- Check upcoming class and more

Health Industry

- Reduce Operating Cost
- Patient File Management
- Prescription Management
- Audio/Video Call Between Doctor-Patient
- Doctors
  - Register on their own
  - Set & check their schedule
  - Enter into a secured meeting room with the patient
- Patients
  - Register on their own
  - Search & Set appoinment with a doctor
  - Make automated payment
- System Admin
  - Control doctors and users inside system
  - Watch over financial reports
  - Contact existing users or doctors

Webinars

- Up to 10K Concurrent Viewers
- End-to-End AES-256 Encryption
- Up to 5 Co-Presenters
- Automatically Record Webinars
- Multiple Layers of Access Control

TICON

BizPort E R P

Technology   Business Case

www.ticonsys.com

Technology

BizPort
E R P

BACKEND

PHP (CodeIgniter Framework), JS

FRONTEND

HTML/CSS/JS/Bootstrap

DATABASE

MySQL

Deployment

AWS (EC2, Cloudfront, Aurora, ELB)

www.ticonsys.com

TICON

Small to midsize companies want ERP benefits, but are wary of initial costs. BizPort Cloud ERP resolves this issue.

Service organizations want better coordination to reduce miscues, BizPort is one of the better solutions for such.

Industry-focused company wants ERP aligned with its specific needs, BizPort enables custom development, integration and deployment.

Medium-size company needs improved analytics, which is one of the main focus of BizPort.

Manufacturer needs to streamline operations and costs, BizPort enables manufacturers for such.

Companies that want a flexible, modular and scalable ERP system can take advantage of BizPort.

Companies expanding nationally and globally need more automation, BizPort can provide any sorts of automation with custom development.

Companies that don't need ERP but want HR management or Project management or Asset Management can take advantage of BizPort modular solutions.

Manufacturing ERP Features

Bill of Materials (BOM) and Routing

Enhanced Inventory Management

Master Production Scheduling (MPS)

Material Requirements Planning (MRP)

Capacity Requirements Planning (CRP)

Advanced Planning & Scheduling (APS)

Production Management

Automated Data Collection

Integration with Plant Floor Machinery

Quality Assurance / Quality Control

Mobile Access to Data

ERP for Food & Beverage Industry

Regulatory compliance & Reporting

Quality Management

Process Manufacturing

Integration Capabilities

Sales & Inventory Management

Integrated Financials

Deployment Options

Vendor support

www.ticonsys.com

Core ERP Features for Small Business

Integration

Automation

Data Analysis

Reporting

Tracking & Visibility

Accounting

Financial Management

Customer Relationship Management (CRM)

Sales & Marketing

Human Resources (HR)

Supply Chain Management (SCM)

Manufacturing

Garments ERP Software Features

Merchandising Management

Production Management

Performance Assessment

Accounts Financial Management

Commercial & System Configuration

HR & Payroll Management

www.ticonsys.com

Geo Track
Family Locator

Technology | Business Case

Technology

Core Technology
Android (JAVA & KOTLIN)

API
Node.JS, PHP (CodeIgniter)

Backend
Node.JS, PHP (CodeIgniter)

Maps
Google Map API,
OpenStreetMap

Database
MySQL, REDIS

Push Notification
Firebase

www.ticonsys.com

Business Case
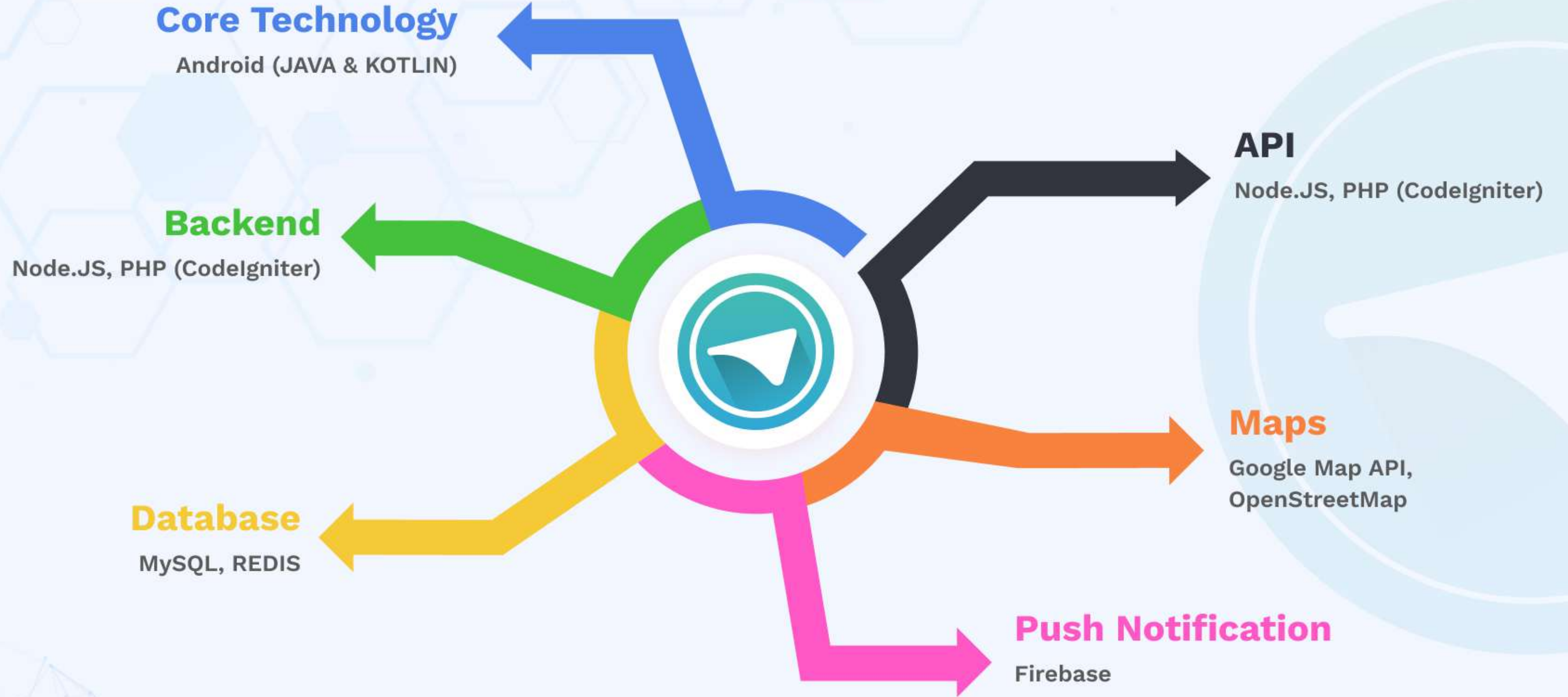
Family, Friends & Pets

- Locate Missing Pets : Pets are a part of the family, and anyone who's ever lost a pet knows the heartache involved. Small GPS tracking devices and GeoTrack can help quickly locate missing pets that have run off or become lost before any harm comes to them.

- Track kids : With GeoTrack platform, parents have a variety of device options and customizations that they can use to monitor & locate their children. Set a fence, get notification and even receive SMS in case of any potential emergency.

- Friends & Family Care : Get notified when family members or friends are at home or near you. Share your location & get updated on where your friends and family are too. Check your driving history and your families when shared with your group. You can even see your FnF's device battery status and receive SMS in case of any potential danger.

- Track the elderly : GeoTrack allows nursing home workers and private caretakers to maintain constant contact with an elderly adult prone to wandering or getting lost. Alerts can be generated based on location status, movement, changes in pressure, and even a customizable alert button.

Vehicle Industry

- Vehicle tracking solution: Track your vehicle location through the sender and receiver app. View details on the admin/user dashboard. Track vehicle health and lots of parameters to determine if the vehicle is safe. Get notification when outside of range they should be and notify/call with just a click.

- Fleet management : You'll gain Improved fleet efficiency from GeoTrack's GPS tracking solution for the transportation industry, while at the same time lowering risks and bettering regulatory compliance.

TICON

Technology

Business Case

Technology

Core Technology

Python, Amazon Rekognition(Image and Video Analysis)

Big Data Analysis

TensorFlow, PyTorch, MATLAB Image Processing Toolbox

Backend

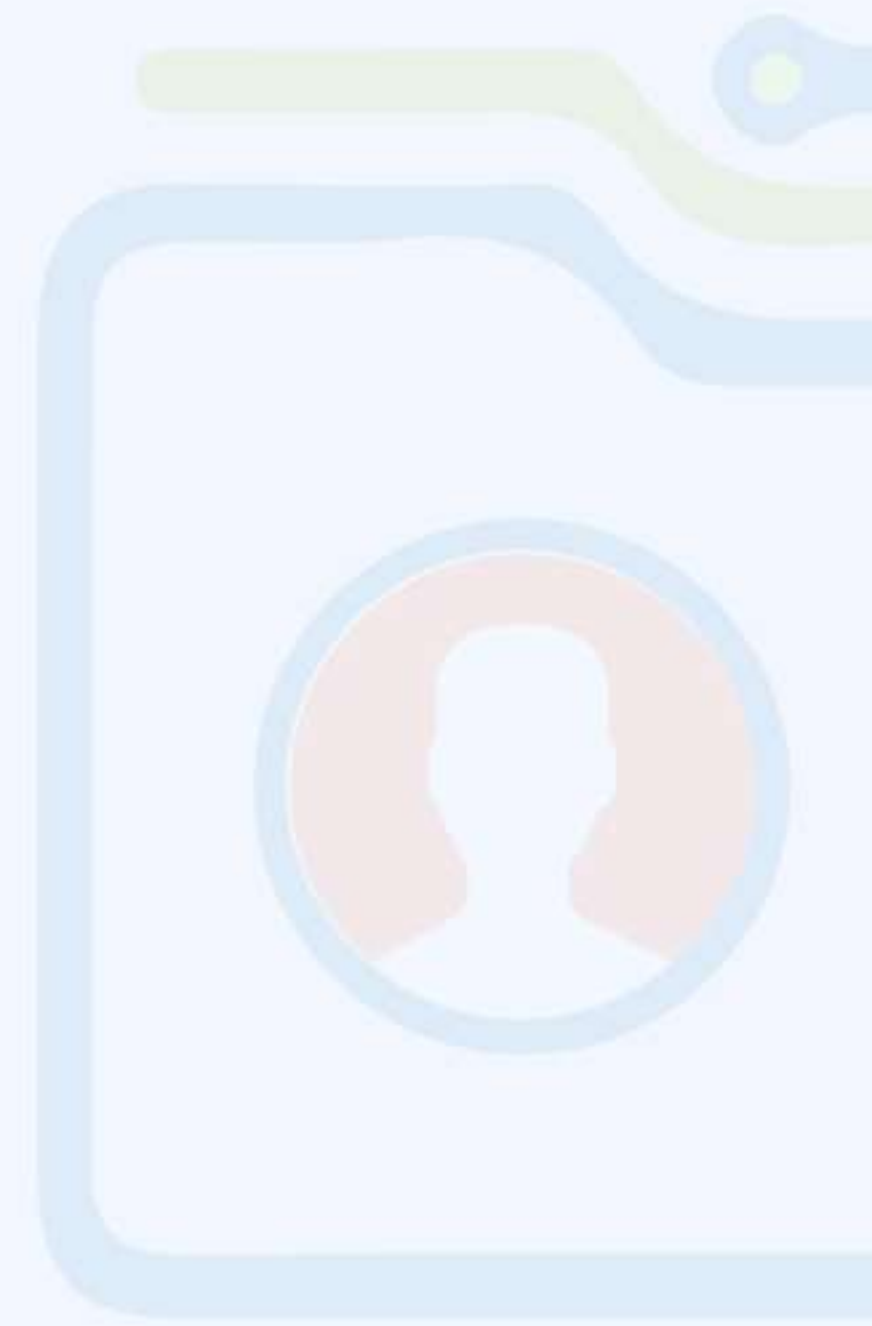Python(Django, Django RestFramework)

Database

Mysql

Frontend

(Html, css, js)

SmartPhone

Android(Java), IOS(Objective C)

Third Party Services

AWS Cloud

Business Case

Digital Image Processing

Digital image processing using **Big Data Analysis** Models are used for manipulating digital images with the help of computer algorithms. Digital image processing is widely used in medical visualization, biometrics, self-driving vehicles, gaming, surveillance, law enforcement, and other spheres. Here are some of the main purposes of image processing on these industries.

Simple Digital Image Processing

Image Processing & Analysis using Big Data

www.ticonsys.com

TICON
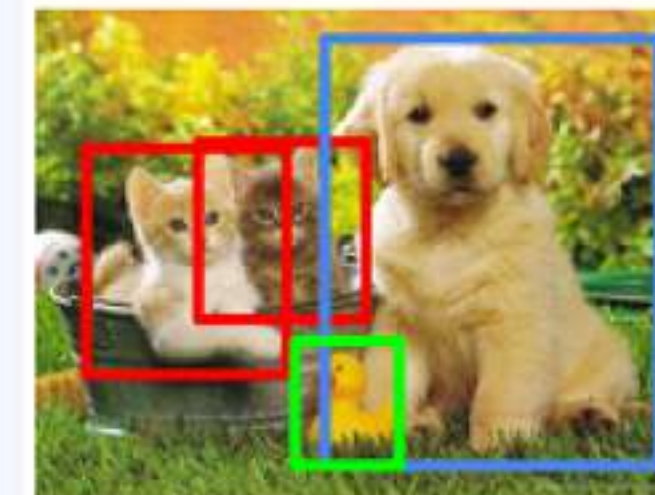
Visualization:	Represent processed data in an understandable way, giving visual form to objects that aren't visible, for instance.
Image Sharpening & Restoration:	Improve the quality of processed images
Image Retrieval:	Help with image search
Object Measurement:	Measure objects in an image
Pattern Recognition:	Distinguish and classify objects in an image, identify their positions, and understand the scene

KEY PHASES OF DIGITAL IMAGE PROCESSING

Big Data Analysis

Image restoration → Morphological processing

Image enhancement

Image recognition

Image acquisition

Representation and description

Problem domain

Image compression and decompression

Color image processing

Big Data Analysis
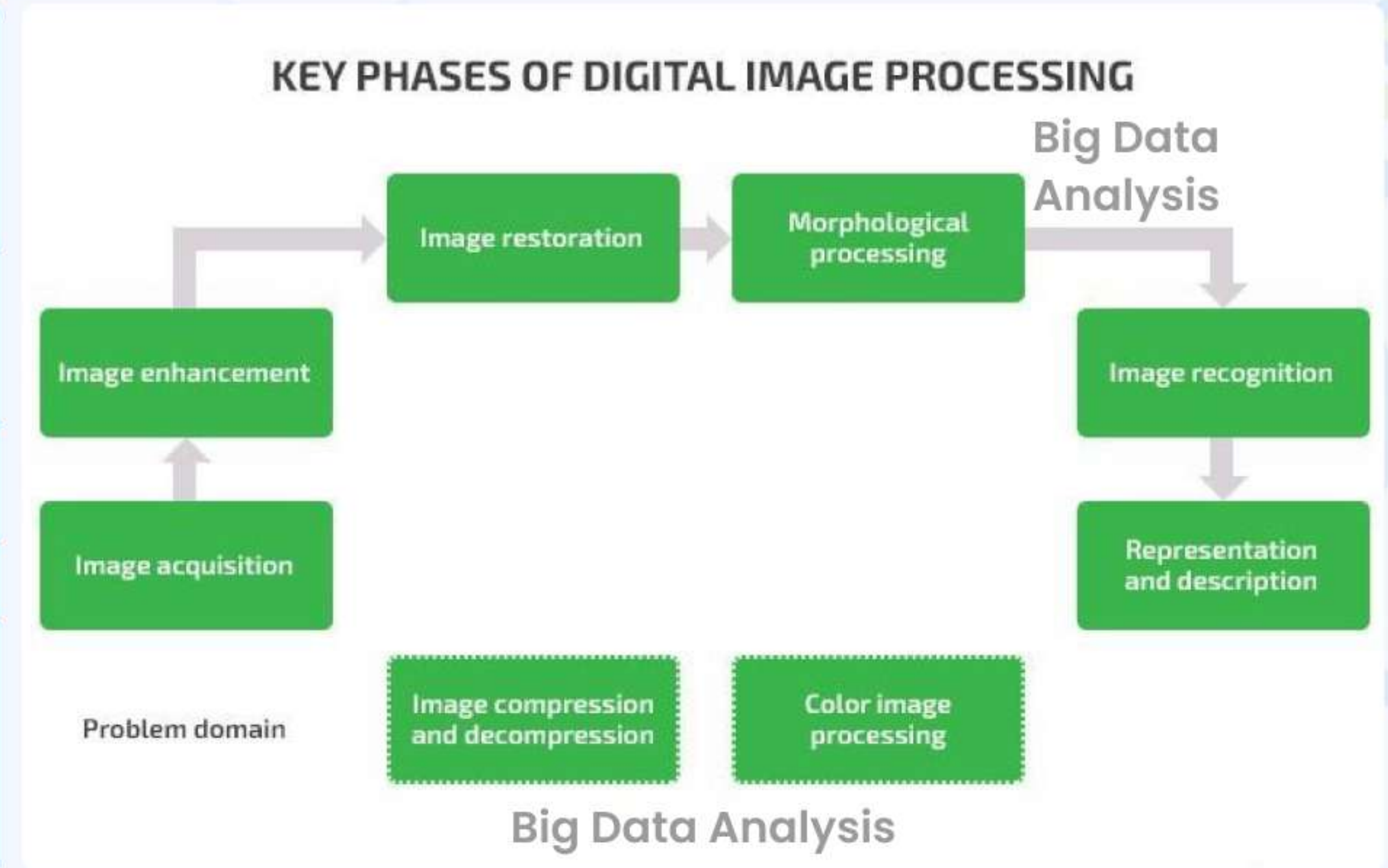
E-Commerce

E-Commerce Image Recommendation System → Train image & collect relevant product image → Based on product category, color, design similarity, brand suggest relevant product

Similar Watches

www.amazon.com

Add to Cart

www.daraz.com

Add to Cart

www.ebay.com

Add to Cart

www.flipcart.com

Add to Cart

Image object detection & recommendation using Big Data Analysis

Image grouping by object detection

www.ticonsys.com

ML/AI

Technology **Business Case**

TiCON ML Model

ML Process at TiCON

Training Inputs

↓

ML Model

↓

Prediction

ML Process at TiCON

4.5mi walked

51 resting HR

30min cardio

↓

ML Model

↓

25% REM sleep

Object Detection Process at TiCON

↓

ML Model

↓

"cat"

TiCON

01

Deep Fake Video

↓

Big Data Analysis
(Deep Face Lab)

↓

Replace Source face with
target face

→

→

02

AI based Customer Helpline

↓

Train Customer
conversational Data

↓

Predict user need & complete
relevant task

→

03

**AI integrated Video Ad
system Automation**

↓

Analysis Video and get tag
with time

↓

Predict and show
relevant Ad with the
video

→

Video Advertising

TICON

ML On TiCON System Ltd.

Application Developers

Data Scientist + ML Engineers

ML APIs: pre-trained models with a single REST API request

AutoML: train and serve custom models, no model code require

BQML: train and serve BQ data using a single SQL query

AI Platform Training & Prediction: managed service for training & servicing custom models

Kubeflow: deploy ML pipelines for pre-processing data, training, and serving model on kubernetes

Deep Learning VM images: spin up VMs with popular ML frameworks pre-installed

ML frameworks: TensorFlow, XGBoost, Sklearn, PyTorch

TiCON

Machine Learning Languages

Python	R	C++

General Machine Learning Frameworks

Numpy	Scikit-learn	NLTK

Big Data Tools

Apache Spark	MemSQL

Data Analysis & Visualisation Tools

Pandas	Matplotlib	Jupyter Notebook

Tableau	Weka

ML Frameworks for Neural Network Medelling

Tensorflow & Tensorboard	Pytorch	Keras	Caffe2

Artificial Intelligence

Prepare → Build → Deploy → Predict → Monitor → Optimize

Data Engineering

Machine Learning

Decision Intelligence

MLOps

Continuous AI

Trusted AI

TICON
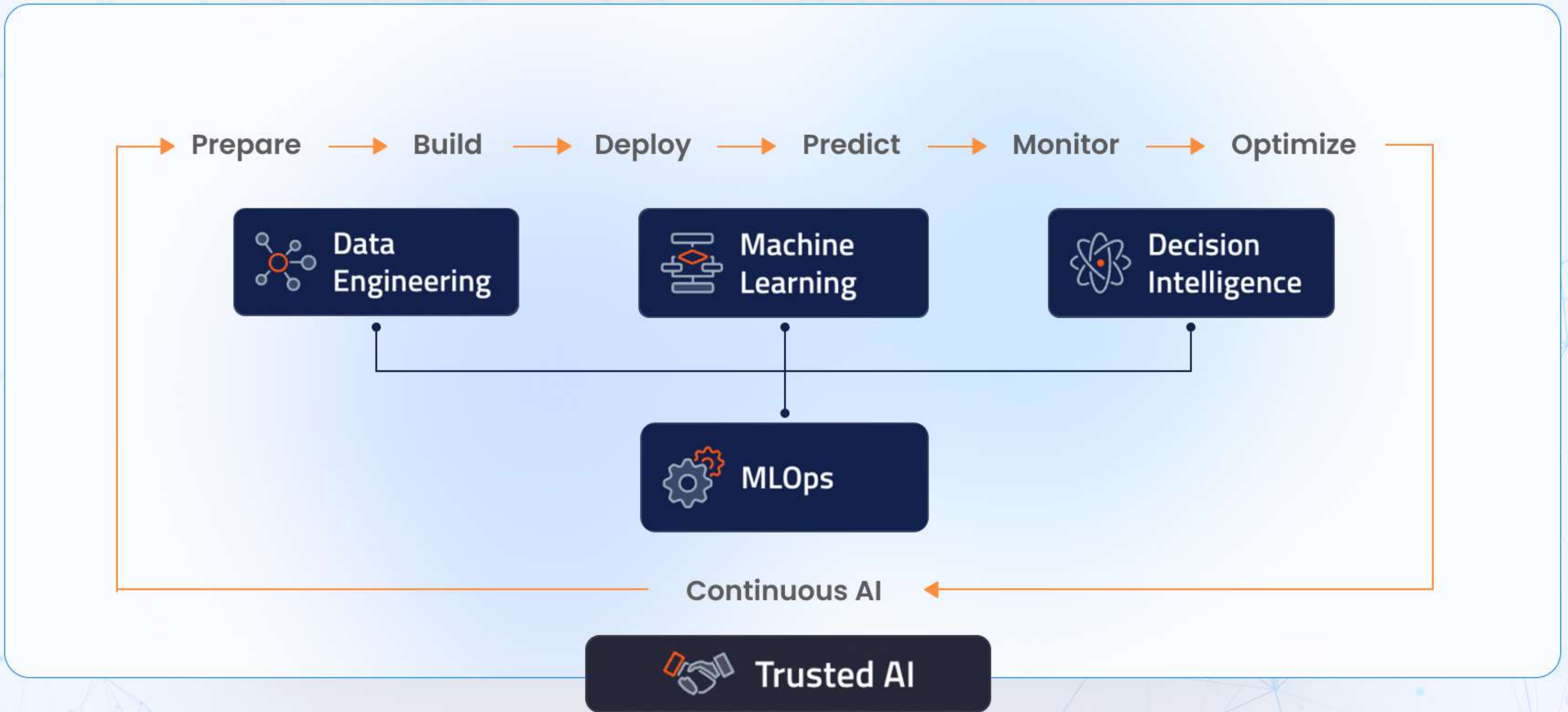
Government Project

Game Projects   **Training Summery**

www.ticonsys.com
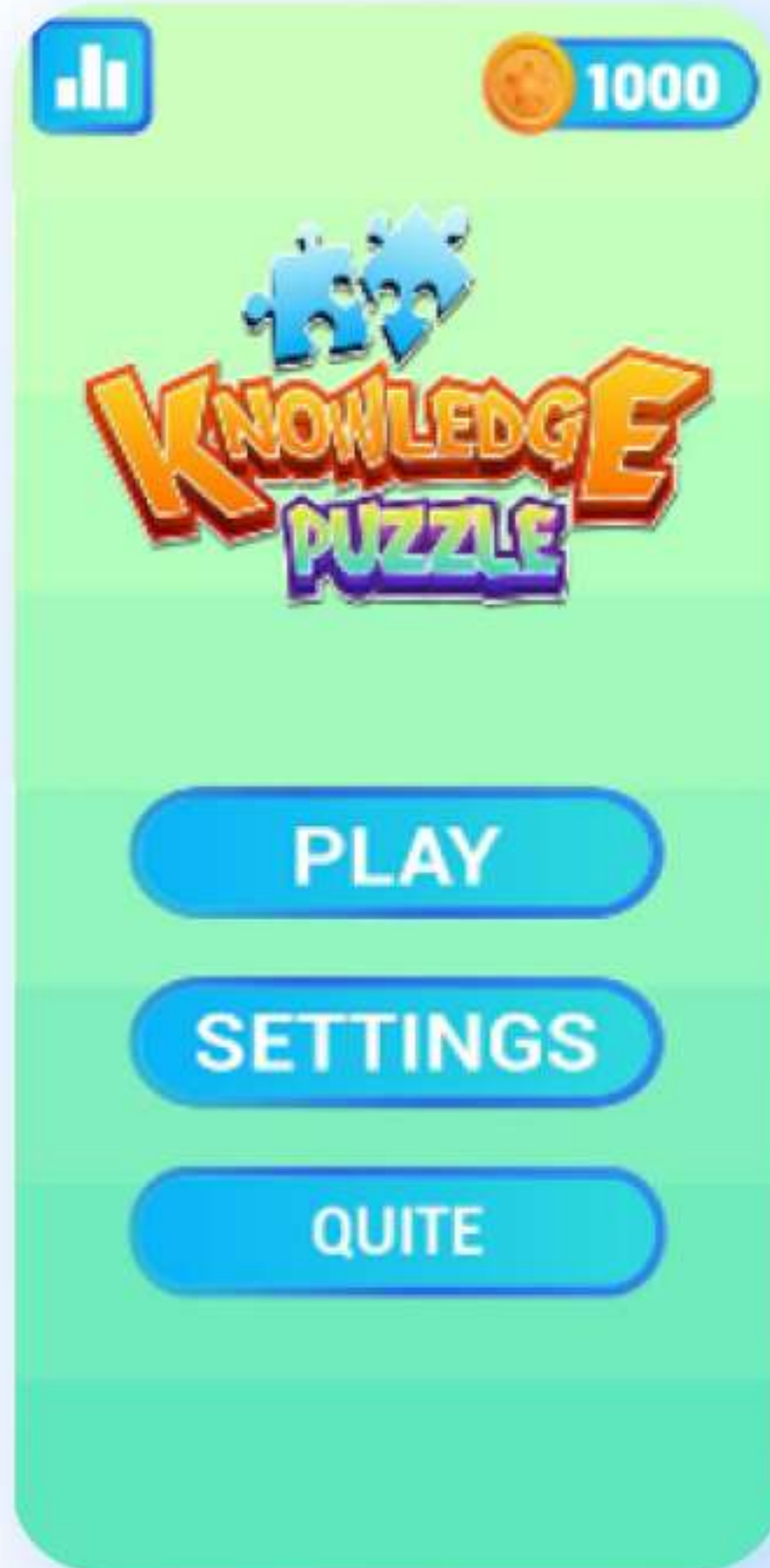
Knowledge Puzzle

Knowledge Puzzle is a quiz game. This is a very classical genre, which offers the gamer a quiz with multiple options with one or more right answers to select from. Here at Knowledge Puzzle Game that will increase user knowledge.

Key Features

- Level base mode single player game
- 20 levels, each level has 15 question and randomly pickup 5 question among them.
- 2d asset and environment
- Admob ads
- More, rate us, pause etc. mini features
- Google leaderboard service and IAP no ads

Traffic Control

Communication by Signals Game is a traffic simulation game here they player plays as a traffic police controlling traffic. Giving a wrong signal will cause traffic accidents leading to end of game. Depending on the amount of time the player survived, the player will be ranked in a global ranking and a Facebook friend list ranking.

Key Features

- Endless mode singular player game
- Levels– 10
- 3d low poly cars and environment/2d
- Admob ads
- More, rate us, pause etc. mini features
- Google leaderboard service and IAP no ads

TICON

Train Manager

Once User are in, the train express is all users to control. Let go off the brakes and speed up in full blaze. Since players will now rely entirely on signaling and track changing switches, the paths they take will be one among an exponential set of possibilities.

Key Features

- Level base mode single player game
- 50 levels
- 3d asset and Bangladeshi environment
- Admob ads
- Market, rate us, pause etc. mini features
- Google leaderboard service and IAP no ads

Cultural Heritage

Cultural Heritage Game is a quiz game. This is a very classical genre, that offers the gamer a quiz with multiple options with one or more right answers to select from. Here at Cultural Heritage Game, we are offering 4 answers among which only 1 is correct and the rest are all false.

Key Features

- Level base mode single player game
- 50 levels
- 2d asset and Bangladeshi environment
- Admob ads
- More, rate us, pause etc. mini features
- Google leaderboard service and IAP no ads

Treasure Hunt

Treasure Hunting Games is a hidden object game. This genre, places the player in a specific environment where the player is expected to find some objects hidden in the environment within a fixed amount of time.

○ Key Features

- Level base mode single player game
- 50 levels
- 2d asset and Bangladeshi environment
- Admob ads
- More, rate us, pause etc. mini features
- Google leaderboard service and IAP no ads

Game Project - 6
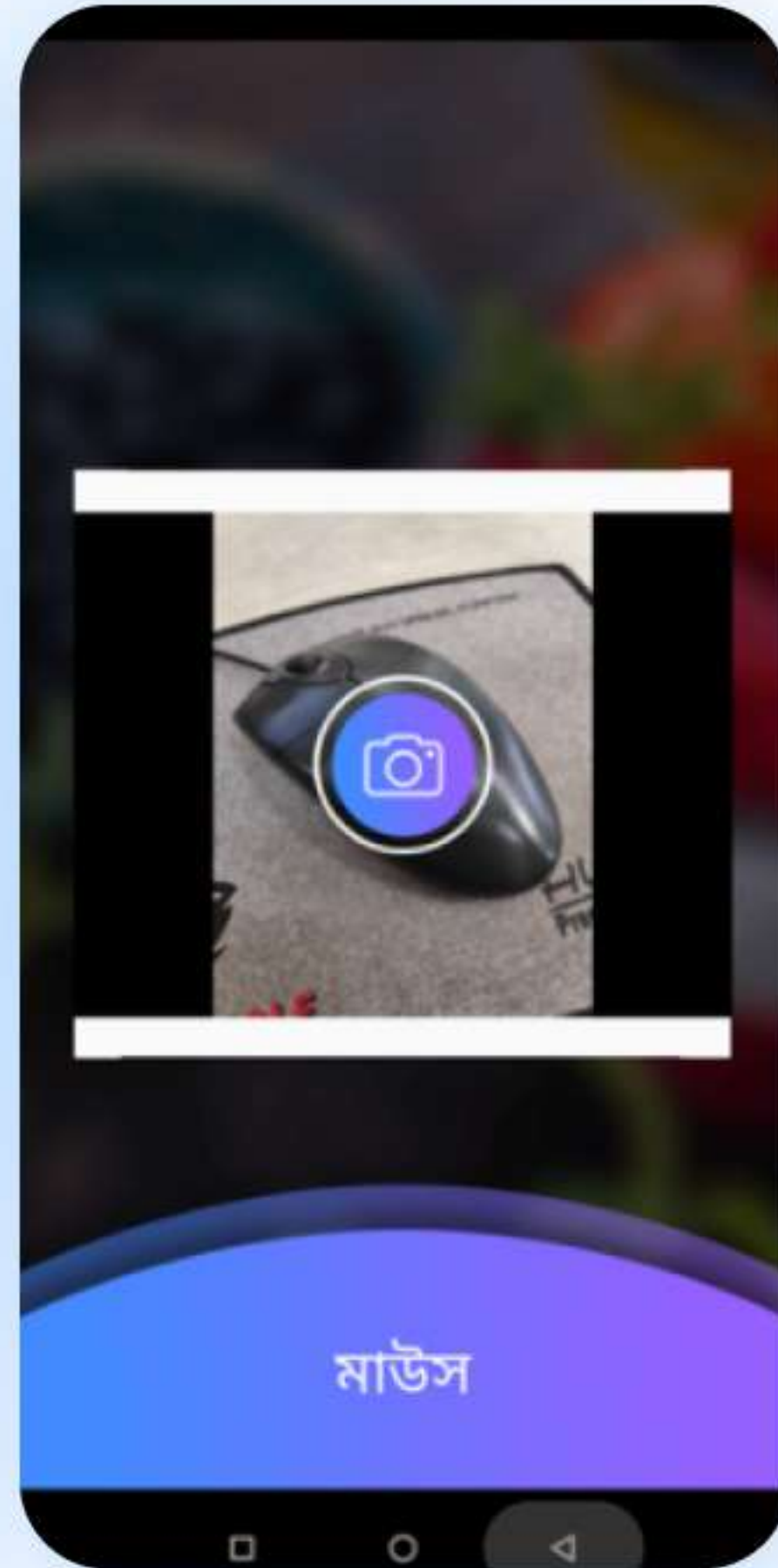
Dristi

DRISTI can recognize daily life essential items for free. Recognize a wide variety of objects at a rate of three times a second. Identify over 2000 species of plants and animals, including dog breeds and bird species. Read text in multiple languages.

○ Key Features

- Recognize Everything
- Recognize Plants and Animals
- Read Text
- Recognize Food & Colors
- Voice Over
- More, rate us, pause etc. mini features

TICON

Training Title : Advance Professional Coaching With Industry Attachment Including Apps & Game Development.

Lot : SD-12

Total Trainee : 60
Total Trainer : 9
Training Duration : 5 month

Developed Total : 8 apps (4 android,4 iOS) and 4 game.

Training Summary

Name of Android Apps

A. Book_exchange
B. E-sellers
C. Karigor Bangla
D. Property Rental

Name of iOS apps

A. E-nvite presentation
B. Shohayok
C. Tour Planner Slide
D. Trip2BD UI

Name of Game

A. Dangerous Balance Controller 3D
B. HypersonicFly
C. Snake Zone BD 3D
D. UpDownAlien

www.ticonsys.com

Software Development

Our years of domain expertise developing secure, scalable, feature-packed, and high performing software, mobile/web apps, eCommerce sites, and CMS.

Cloud Adoption Services

As AWS technology partner - Our AWS certified experts offer AWS Cloud platform consulting for Cloud Advisory Services, Cloud Enablement Services, Cloud Implementation Services, and Cloud Managed and migration services, etc.

Software Consulting

Experienced consultants enabling maximize ROI software project to initiate effective planning, execution, delivery & management of software consulting services.

Software Development Expertise

Offering technology consultancy service to implement the most suitable technology stack and well-thought-out system architecture.

Third-party Solution Customization

Technology consulting service for a third party solution to implement the most suitable technology stack and architecture.

Software QA and Testing

Our expert quality analysts & tester will make sure the Software in the loop to runs across the project.

Migration and Upgrade

Our expert consultants offer technology consulting to implement migration and up-gradation service with the most updated technology & solution stack thought-out system architecture.

Software UI/UX Design

We are experts with creative feature-packed & high performing UX and UI design with our creative young professionals.

Support & Maintenance

We are providing application support and maintenance services to customers and proved to be a professional and reliable partner.

www.ticonsys.com

TICON

Valued Clients

www.ticonsys.com

Our Team

Highly Creative & Motivated Teams

We Understand Business Needs

Quality & Security Adherence

Your Ideas Are Safe With Us

Innovation is Guaranteed

Result-Driven Approach

Non-Disclosure Agreement

Integrity & Transparency

www.ticonsys.com

TICON

Partners

Vendors

aws partner network

Advanced Technology Partner

aws partner network

Reviewed

Google

Azure

Alibaba Cloud

Members of

KOSA Korea Software Industry Association

AIIA 지능정보산업협회 Artificial Intelligence Industry Association

BASIS Bangladesh Association of Software & Information Services

বাংলাদেশ কম্পিউটার সমিতি Bangladesh Computer Samity The ICT Industry Association of Bangladesh

KBCCI 한방상공회의소 Korea-Bangladesh Chamber of Commerce & Industry

BANGLADESH HI-TECH PARK AUTHORITY

www.ticonsys.com

TICON

USA

South Korea
(Headquarter)

Bangladesh

www.ticonsys.com

TiCON

Contact Us

Visit Our Website for more information

TiCON System Limited
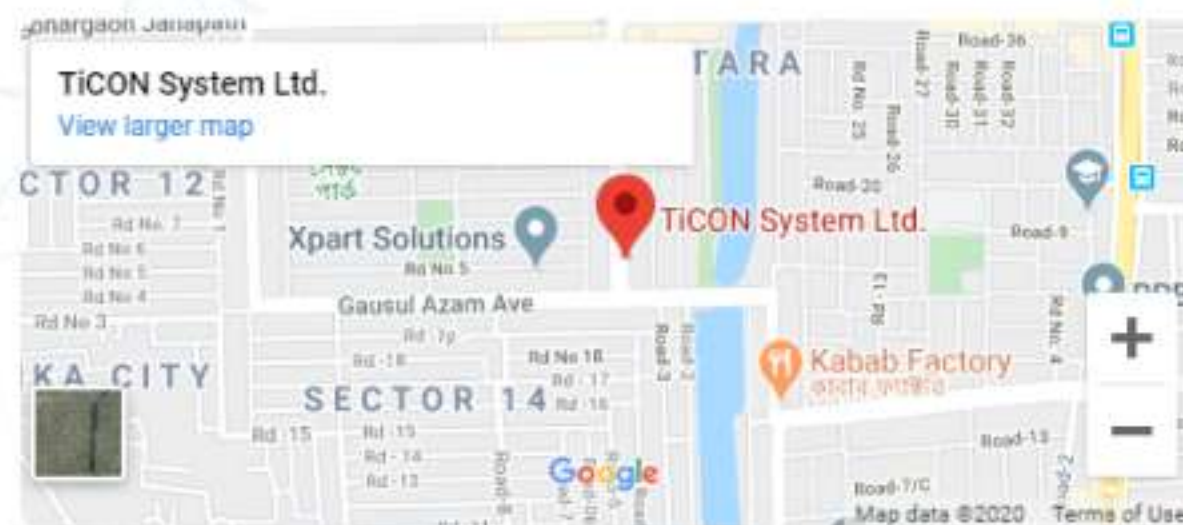
Lets Enjoy Power of Solution

Bangladesh Office

Level 6, 8 Gareeb-e-Nawaz Ave, Sector-13, Uttara, Dhaka, Bangladesh.
Postal Code : 1230
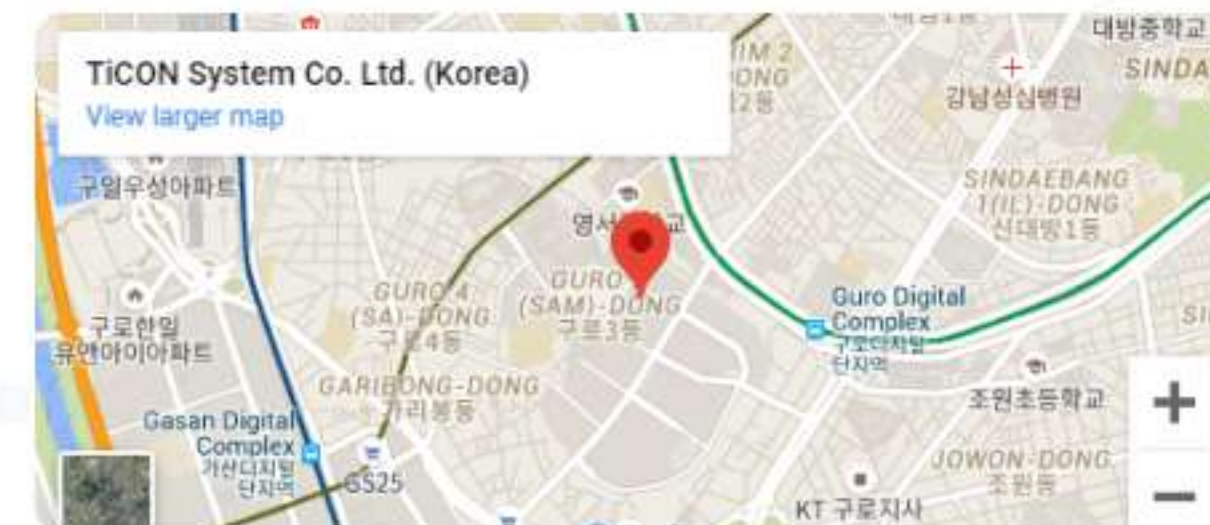Phone : +8801777174791
Email:- contact@ticonsys.com

Korea Office

#508(5F) Samsung IT Valley, 27 Digital-ro 33Gil, Guro-Gu, Seoul, Korea.
Postal Code : 08382
Phone : +82 2-866-1477
Email:- contact@ticonsys.com

USA Office

3031 Tisch Way, 110 Plaza West San Jose, California, United States of America
Postal Code : 95128
Phone : +1 669 256 4539
Email:- contact@ticonsys.com

www.ticonsys.com