Developing the ITC System

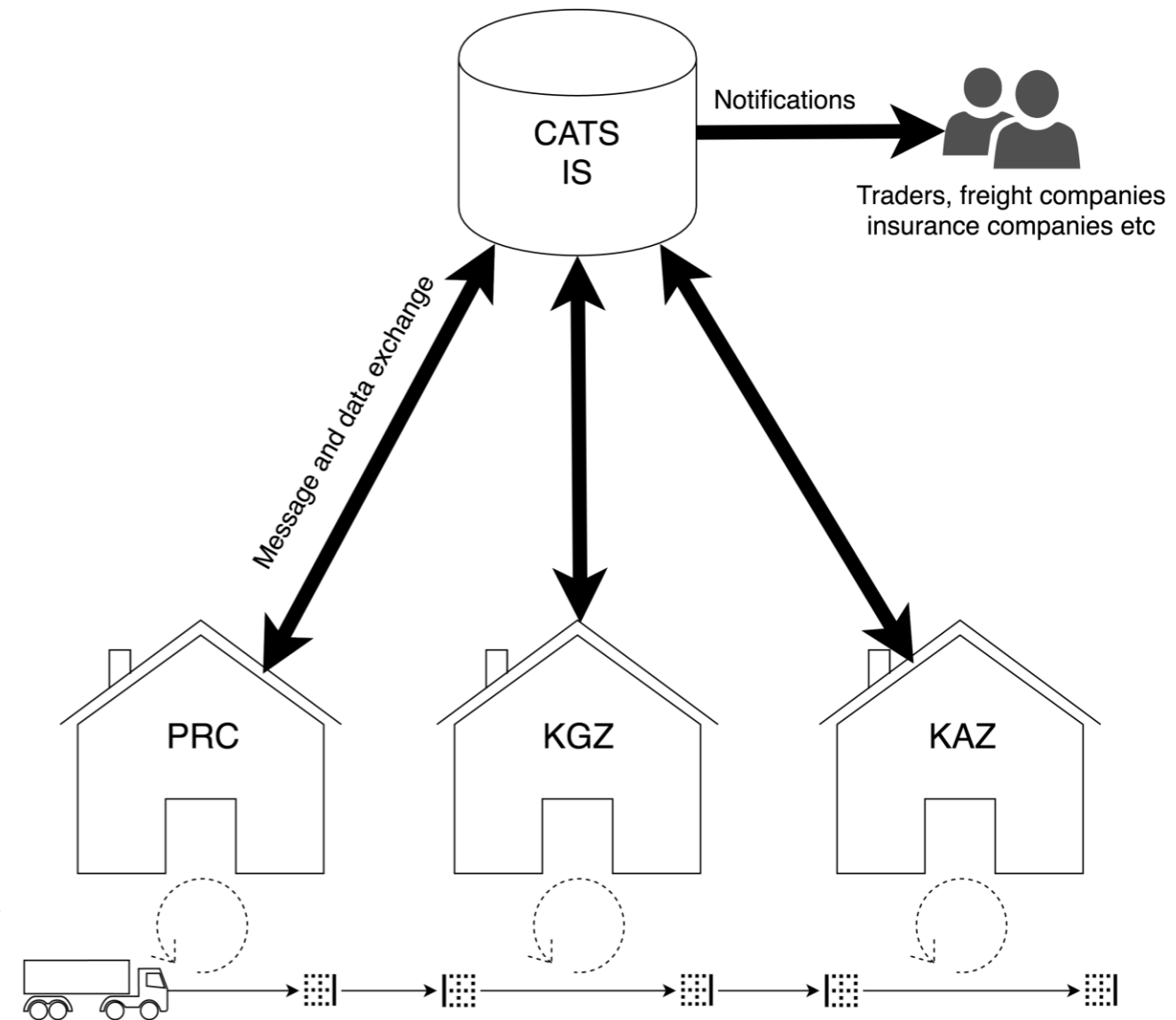Facilitation of Regional Transit Trade for CAREC (ADB)

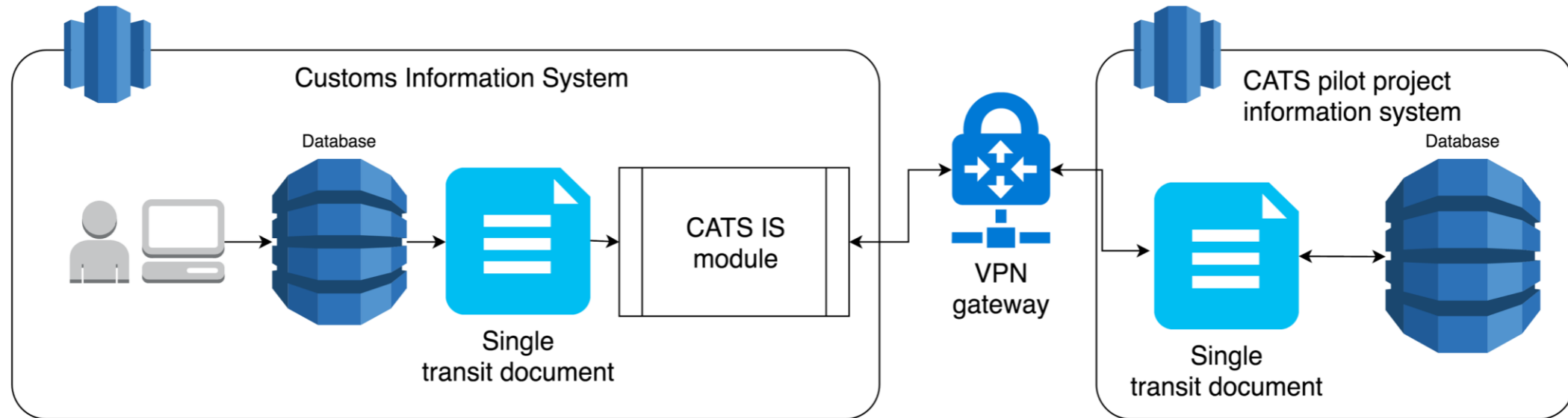Technical and Management Issues

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Suggested ICT system architecture for the pilot project

- General requirements

  - A centralized protected system using reliable communication channels for data exchange with all participants;

  - Unified data exchange interface open to the participants, based on the standards used by the majority of the participating countries

- Components:

  - Data exchange platform supporting operations with the agreed single transit document;

  - Platform for message exchange between the participants, which will be used, inter alia, to support the processing of payments under the CGM;

  - Status control of the of guarantee payments under the CGM;

  - Notification interface (email, SMS, instant messengers) for all system participants, including the carriers, customs brokers and freight owners, for the delivery of notices and document statuses, and messages within the system, such as the status of transit, etc.
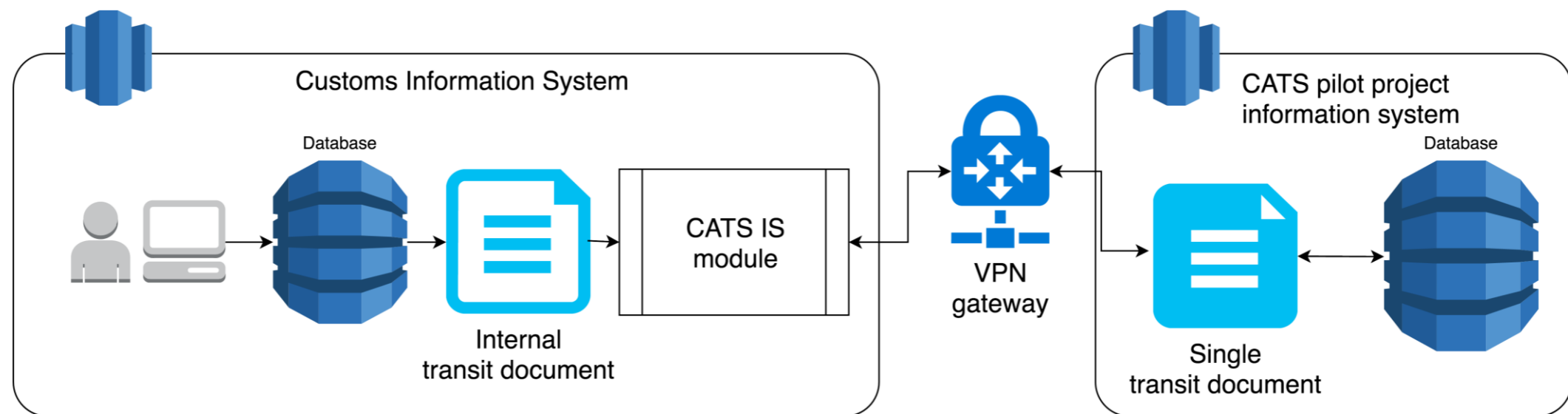
Interface - single transit document based

- using own customs information system, to work directly with the single transit documents, located in the CATS information system

Interface - internal document based

- transparent translation of the data, contained in the customs information system, into the single transit document stored in the CATS IS
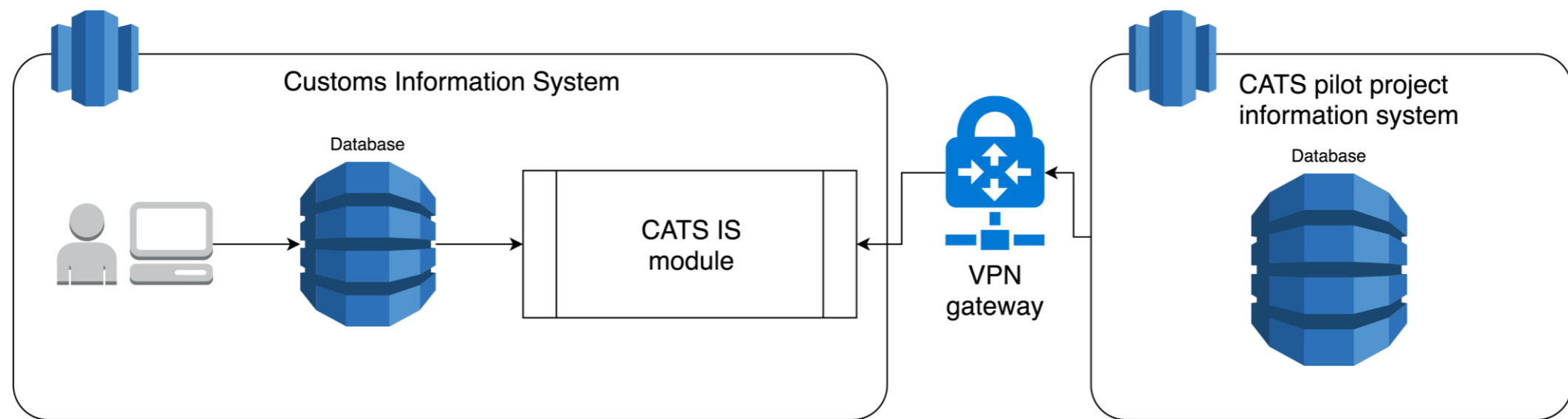
Implications for ICT systems

- Customs Automated Systems

  - A protected high-speed reliable communication channel with CATS IS

  - A gateway supporting data exchange and messaging with CATS IS on the side of the customs IS

  - Corresponding modifications in the components related with the transit, risk management, Authorized Economic Operators registries and other transit-related modules
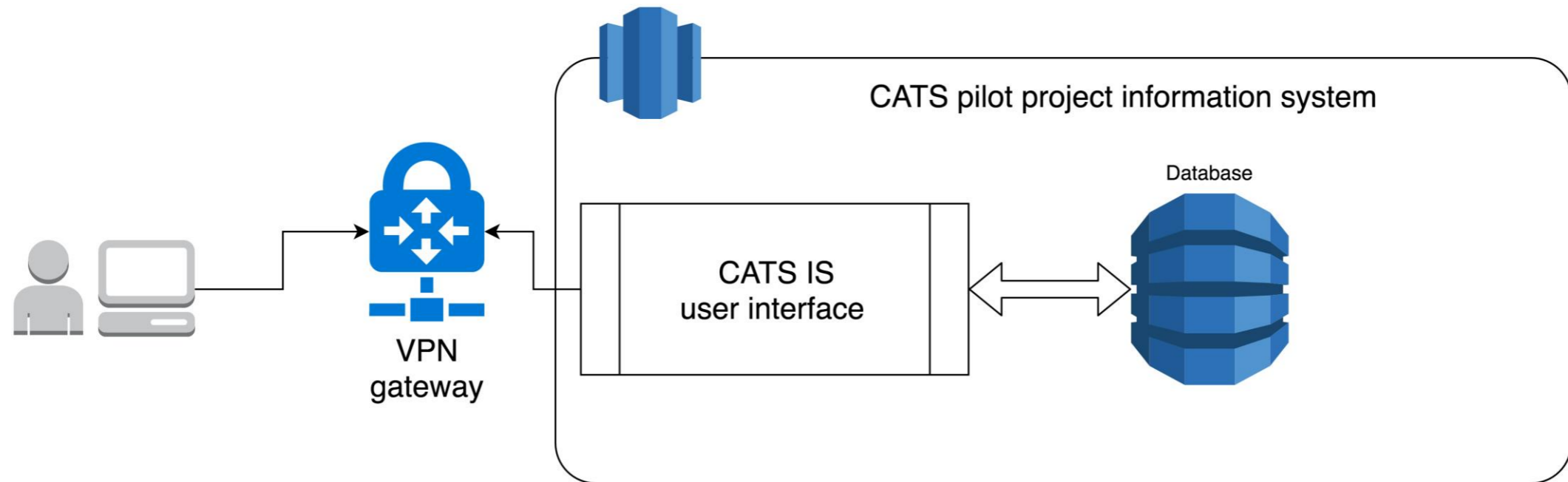
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Implications for ICT systems

- Other potential integration/interfaces
  - Single Window Principle Implementation Projects
  - Payment Systems
  - Major Market Participants' Information Systems

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Interface - CATS IS module

- a. Gateway enabling customs personnel to access the single transit documents in the CATS information system directly from their customs information systems;

- b. Gateway providing transparent translation of the data from the customs information system into the single transit document format

Interface - CATS IS module

- Interface on the CATS IS side, enabling customs officers to work with the single transit documents, messages, and notices directly in the CATS IS

Internationalization (I18N) issue

- An option, where the fields in the documents to be lodged are filled in all necessary languages (Russian and Chinese);

- Use of the agreed glossary of terms

- Use of a machine translation system, including the translation of attachments to the single transit document

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Recommendations – Pilot project

- Agreed Software Requirements Specification

- Comparability with existing systems

  - single transit document based

  - CATS Pilot IS modules

- New requirements and dependencies

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Recommendations – Pilot project – SRS development

- Agreeing the data format of the single transit document, registry of authorized economic operators and other databases /documents used in the system;

- Detailed description of the data exchange/message exchange workflows;

- Detailed description of the permissions/ownership of data/documents/messages;

- Internationalization problems, in particular, the translation of the documents lodged with the system;

- To the detailed description of the CGM operation mechanism and the system of settlements (payment system).

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Recommendations – Pilot project

- Customs concerns:

  - transparent and predictable mechanism for conducting guarantee payments

  - cross-border payments

  - acceptance of the results of cargo examination or scanning or any other data

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Recommendations – Pilot project

- Eurasian Economic Union:

  - technical and regulatory requirements of the Customs Union

  - Customs Union data schema

  - additional workload on the relevant departments

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