# **BIAN Webinar**

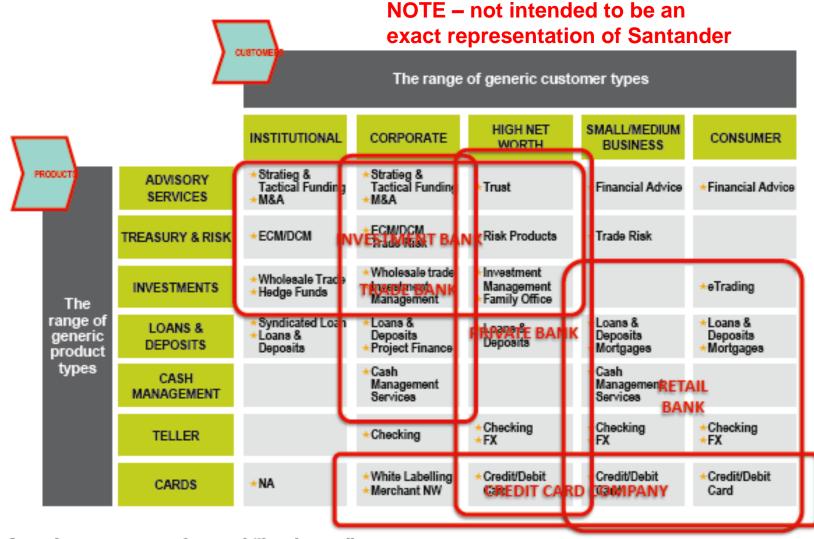
BIAN as a functional language - the journey (so far!) toward fully compliant Domain Driven landscape.

**21**st October **2020** 

### **View of Generic Banking Institution**



Santander is a complex global, multi-entity organization.
For purpose of demonstrating, this is a an example of the generic global bank view across the customer and product dimensions

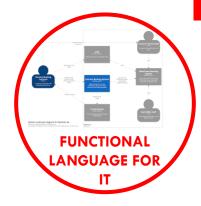


Examples of product segmentation and "bank type" coverage

#### Confidential

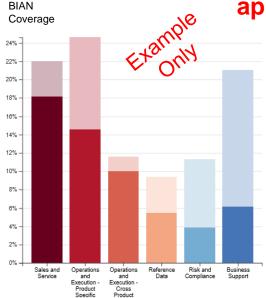
## **Example BIAN Use Case 1**





#### **BIAN AS A FUNCTIONAL LANGUAGE TO ORGANIZE IT LANDSCAPE**

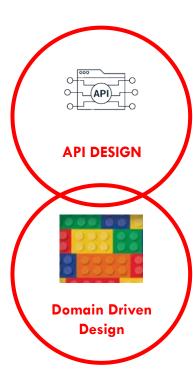
- In a complex global, multi-entity organization such as Santander Group, BIAN provides value as a common functional language to organize and manage the Applications Portfolio.
- Key IT portfolio tools are being updated to include BIAN Service Landscape as a new dimension to manage our assets.
- This also provides a view into opportunities such as simplification of the application landscape, reducing costs, decommissioning.





### **Example BIAN Use Case 2**



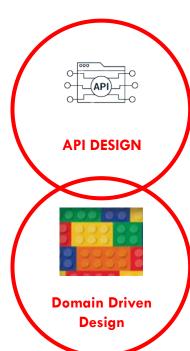


#### **BaaS - API FUNCTIONAL REFERENCE FRAMEWORK**

- A reference architecture framework has been defined in order to provide common standards across the group.
- API Functions are published in the Intranet API Portal
- Enables more efficient identification of required APIs, also preventing inadvertent duplication.
- Each API is classified under its corresponding BIAN Service Domain.
- API Design: Each API must expose functions from only one BIAN Service Domain.
  - Also recognises, in some cases, a service domain may have more than one API
- An API can delegate responsibility to another API, matching the Service Domain model
  of delegating responsibilities to other service domains. This is hidden from the
  consumer.

## **Example BIAN Use Case 2**



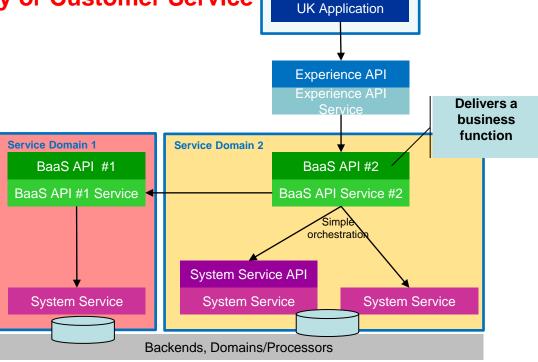


#### **BaaS - API FUNCTIONAL REFERENCE FRAMEWORK**

 Banking as a Service (BaaS) APIs can be reused and have business logic that is common for many applications according to its BIAN Service Domain (Capability) which sets the logical boundaries and scope of functionality and data (I.e. Domain Driven Design)

BaaS APIs are Touchpoint, Customer Journey or Customer Service capabilities

 Each BaaS API must exclusively manage it's own data, for the whole lifecycle of that data.



Channel

#### Direction of travel towards service orientated fully compliant landscape



	Type 1. Direct to Core	Type 2. Wrapped Host	Type 3. Component Architecture
Definition	The API routes direct to the core system providing the service. Intermediate channel based access control and 'buffering' is required	Integrating service middleware – a service bus – 'wraps' the host systems. The service bus can offer various host access mitigation capabilities/enhancements	The host services are implemented as loose coupled microservices with complex interactions supported by sophisticated connective middleware
API Service Description	Read only or simple 'atomic' update transactions supported by a single host system. The solution is likely to be host application specific	Enhanced 'simple access' services aligned to established standards. Wrapping may enhance service capabilities and some hosts may support more complex exchanges	Support for flexible and complex interactions involving multiple business activities and processing/decision chains
Examples	<ul> <li>Retrieve a balance/account statement</li> <li>Reference a product/service directory</li> <li>Initiate a payment</li> </ul>	Message conforms to industry standards (e.g. ISO20022)  Retrieve a balance/account statement Reference a product/service directory initiate a payment Customer on-boarding/offers	<ul> <li>Prospect on-boarding and origination</li> <li>Customer dispute/case resolution</li> <li>Customer relationship development/up-sell/cross-sell campaigns</li> <li>Third party service integration</li> </ul>
Business Drivers	Provide application based access to an established/existing type of customer exchange	Provide application based access with a high degree of standards alignment. Mask/augment host/legacy system limitations.	<ul> <li>Support sophisticated interactions</li> <li>Support new business models</li> <li>Support for 3rd party integration</li> <li>Leverage advanced technolgies/architectures</li> </ul>
	Direct to Core		BIAN
	Wropped Host		Aligned
		Microservice Architecture	