

Clearstream Digital Strategy

16 November 2017

Why Fintech matters to Clearstream



Enable cost reduction and increasing efficiency



Technology may be a way of us developing new services



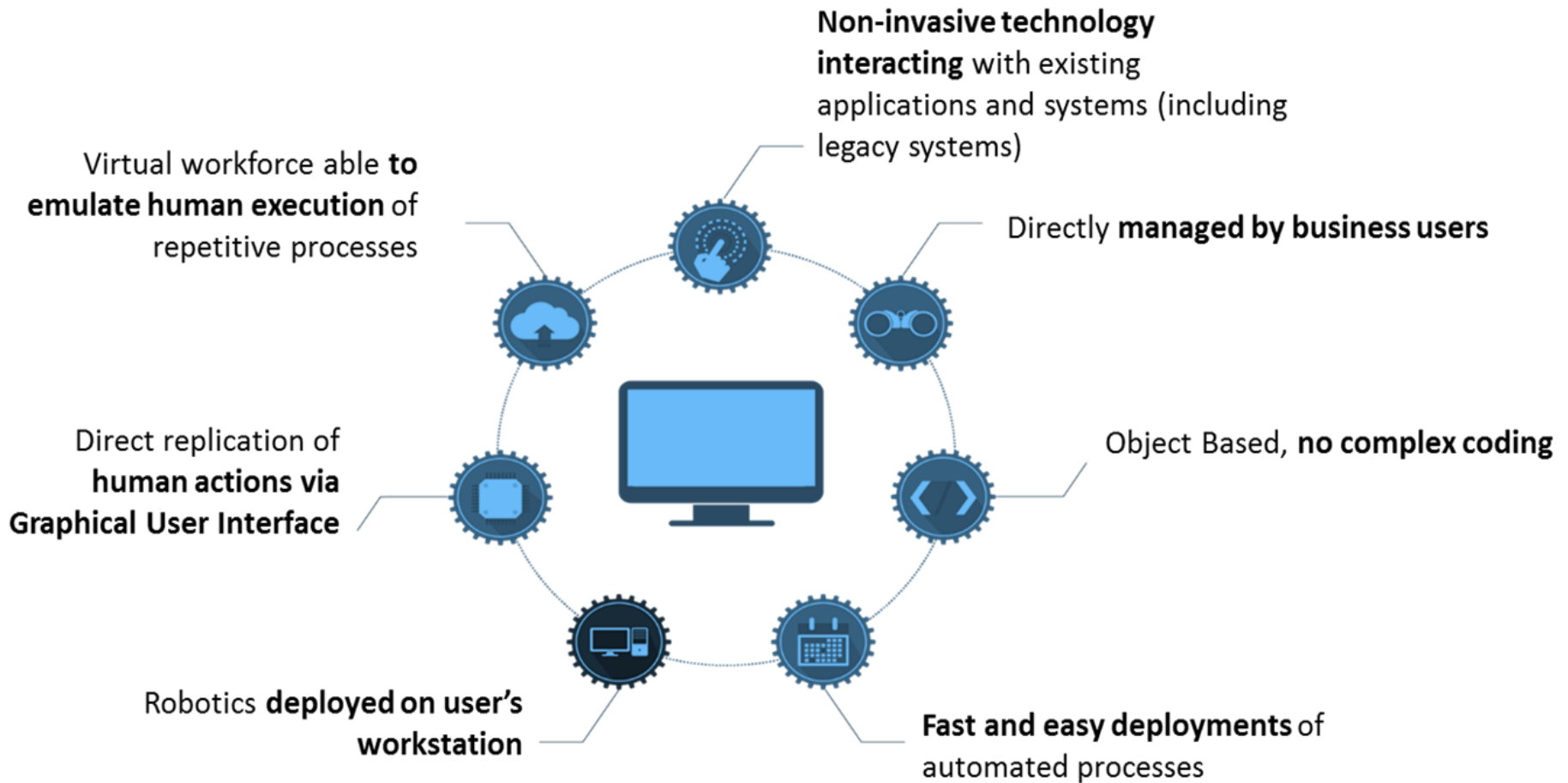
Expanding into new geographies or client segments

Our approach

- Increase time-to-market through **agile** service/product delivery, focusing on client experience and customisation
- Assess **robotics/AI** opportunities for efficiency gains and reductions in manual processes
- Consider new data and analytics solutions to customers through **APIs**, using **cloud** as an enabler
- Focus on delivering a web of **microservices** offering niche functions
- Explore applications for potentially transformative technology e.g. **blockchain**

Clearstream path to Robotic Process Automation

RPA, a tool to replicate human actions...



Cloud Adoption

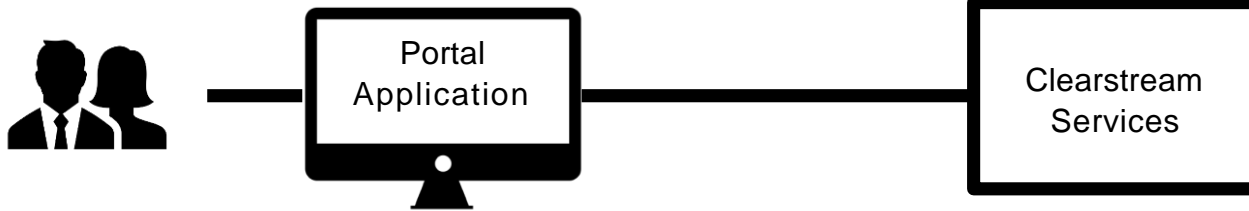
Ongoing steps to Cloud adoption:

- Complete public Cloud **infrastructure set up** and service provider management
- Develop Cloud **Centre of Excellence** with Chief Cloud Officer
- Finalize and review **risk assessment** for specific deployments
- Complete **architecture review** for application transition, or rebuild functionality as Cloud native micro-services
- Deploy **API mandate** to enable end-to-end processing across value chain and datafication

Resulting in

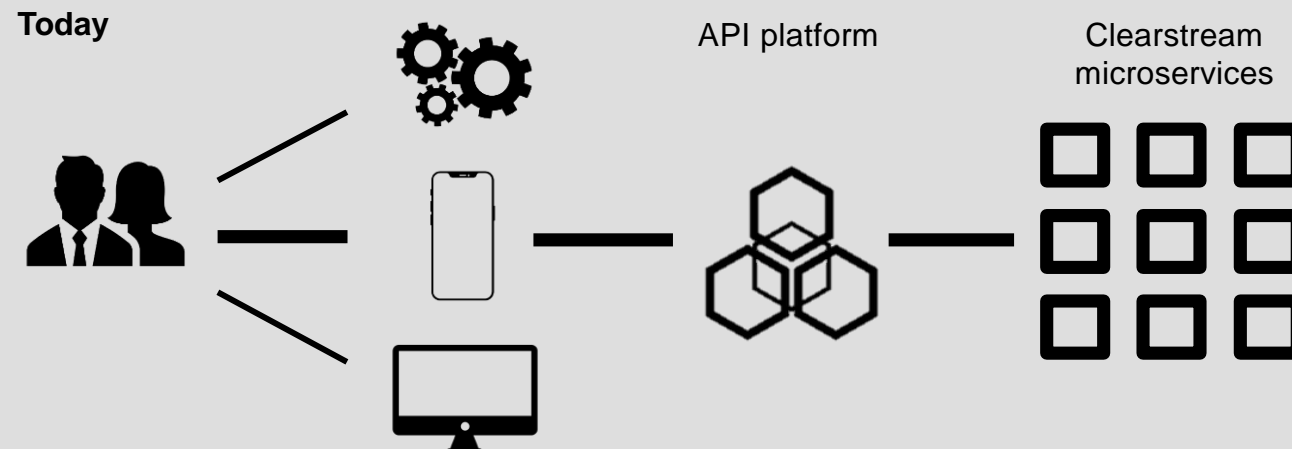
- **Enterprise IT Digitization and Office Automation**
- **Deployment of production workload – regulated/ non-regulated**
- **API platform, product innovation/ partnerships**

APIs – Application Programming Interfaces



Yesterday

- Up to now, services have been delivered through feature-rich, internally designed applications we provide to customers



Today

- The new operating model involves providing API access to individual microservices, allowing customers to tailor their own interactions with Clearstream

4+1 ingredients to a successful smart data play

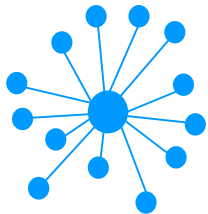
Analyse



1 A.I./ Machine learning power

Open APIs

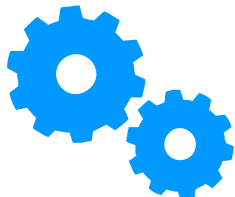
Aggregate



2 Data processing skills and capacities

Open APIs

Generate



3 Scalable big data processing infrastructure

Open APIs

4 Access to non-traditional datasets



Domain Expertise
+
Ecosystem Approach

Clearstream is leveraging Deutsche Börse Group's scale to maximise impact of Blockchain Technology initiatives

