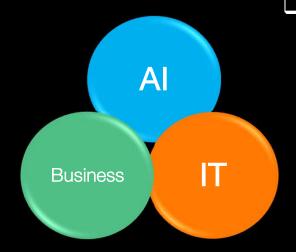


Data & Al Experiments Al Roles: Data Eng, Data Analyst & Data Scientist **Architecture** Notebook **ML & DL Framework** Data Stores Web App Data & ML Experiment Pipelines Data Store (online) Supervise Data Experiment Al Data Feature Training or Transform Model Analysis Extraction Unsupervised & Validation Evaluation Data Lake & Validation (offline) **Confusion Matrix Block Storage HDFS Experiments** versioning Recall, ROC... & Private Cloud Then... what about model testing, monitoring, scaling? orange[™] **Orange Internal**

Data & Al Experiments - Experience & Observations

- ✓ Al Model developpers and Business Users don't speak the same language
- ✓ Data transform & validation often points out business challenges
 - ✓ « Performance » is not understood the same

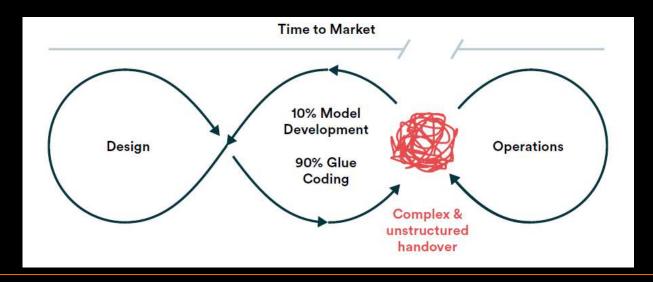


- Deliver Al Model asap Upgrade easily
 - ☐ Understand user expectation & User Experience
- ☐ Address ML Lifecycle
- ☐ Assess your Maturity



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How to deploy ML models in Operations?



Today only 20 % Companies
can Deploy and to Operate ML models
in operation & with Acceptable ROI



Five AI Maturity dimensions



Strategy

The plan of action for achieving the desired level of Al maturity in the organization.

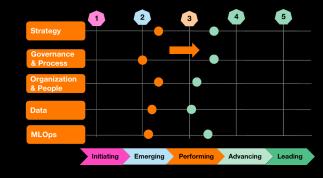


Governance & Process

The policies, processes and relevant technology components required to ensure safe, reliable, accountable and trustworthy Al solutions.



The leadership practices as well as roles, skills and performance measures required for people to successfully build and/or work with AI.





Data

The data required to support specific AI techniques defined by the AI strategy.



MLOps

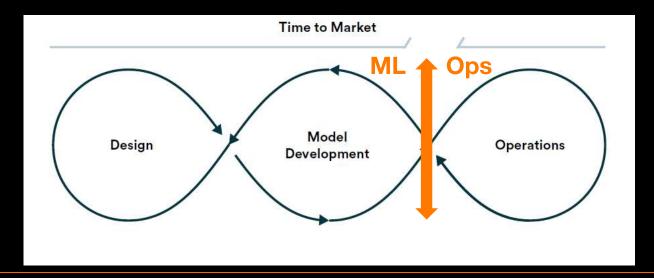
The technical infrastructure and tools needed to train, deliver and manage Al models across their lifecycle.



Readiness for MLOps At Maturity level from 3-4 / 5

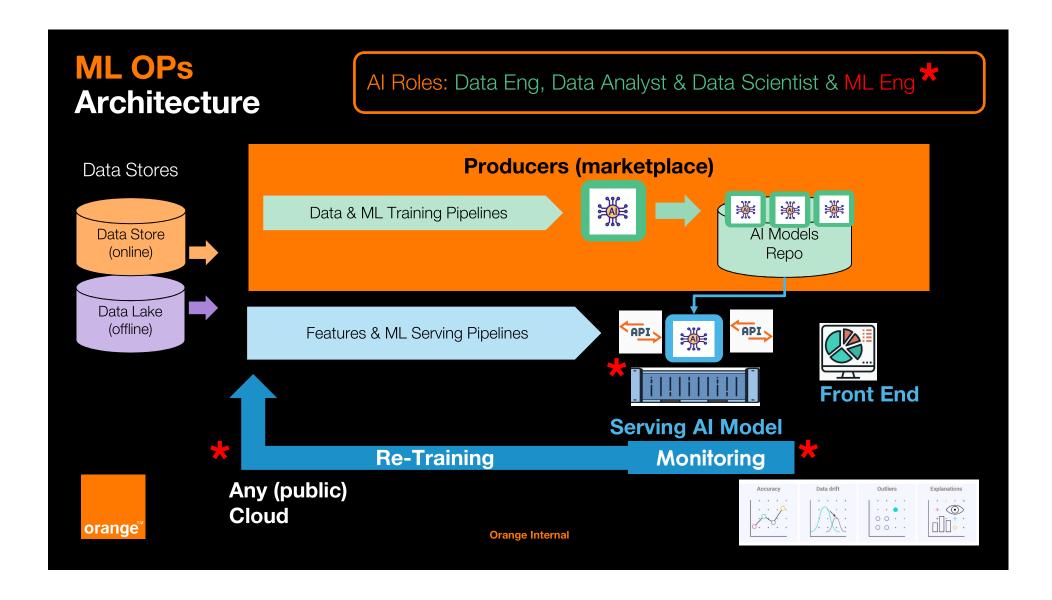
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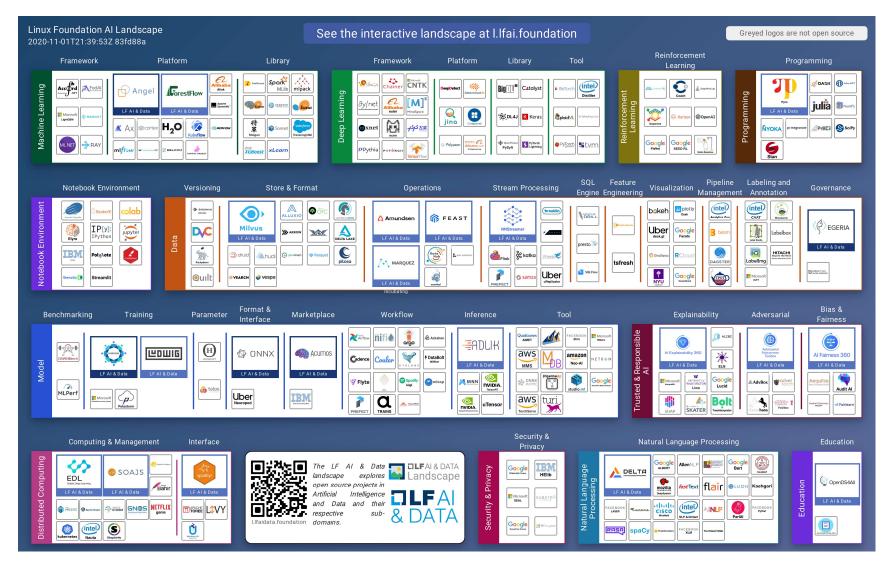
MLOps: Scale ML beyond the limits of experimentation



cover the entire ML lifecycle and all of the user roles necessary to create ML production systems

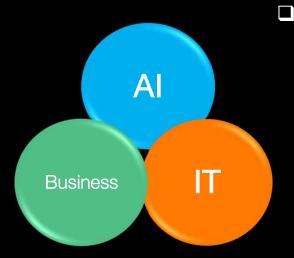






Key takeaways

- ✓ Developing AI pipelines as a first step to move towards an AI-driven Company
- ✓ Maturity of your Company shall be assessed to define and track a Transformation Plan, including roles and Governance



- MLOps platforms will bring the capability to manage the entire lifecycle of Al
 - ☐ Testing, monitoring, scaling models are key from the very beginning
- ML Engineer as a key player to liaise between Al developpers and Business Owners



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Merci

