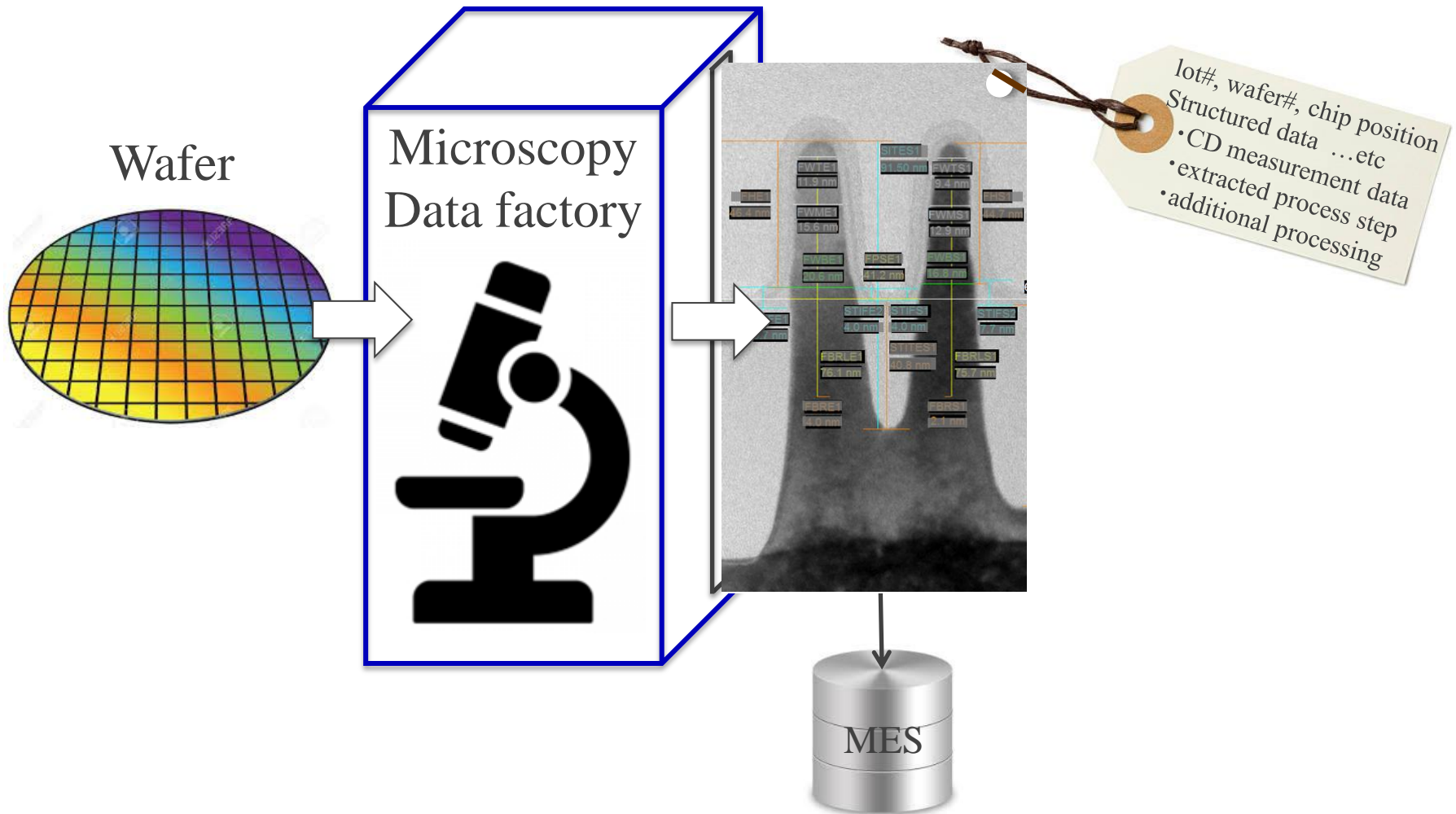


Globalization of EM Workflow Task Force

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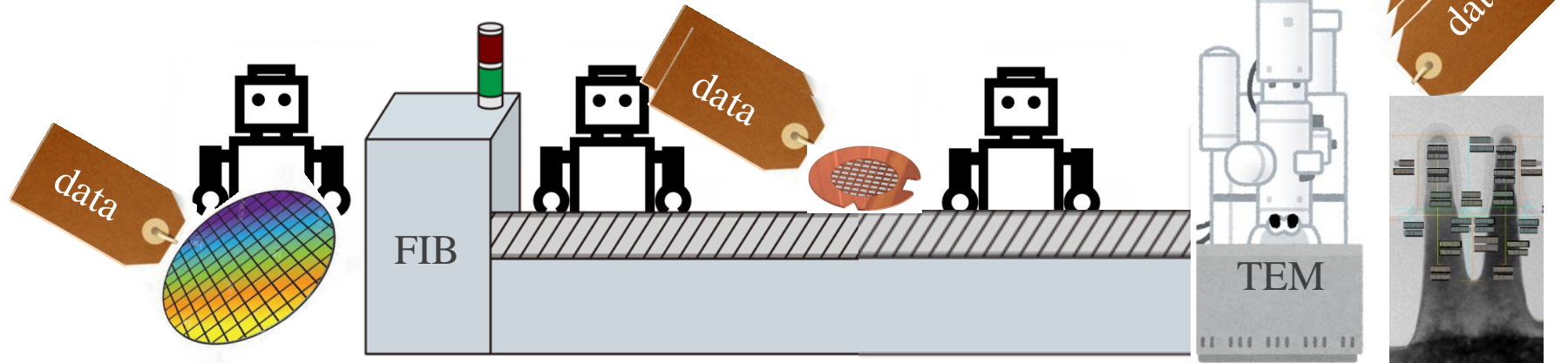
Japan EM Workflow liaison Task Force

TEM grid standards can enable fully-automated solution for faster data generation enabling increased sample/data.



Data factory

As data factories, all semiconductor manufacturing and inspection data are associated.



Manual handling

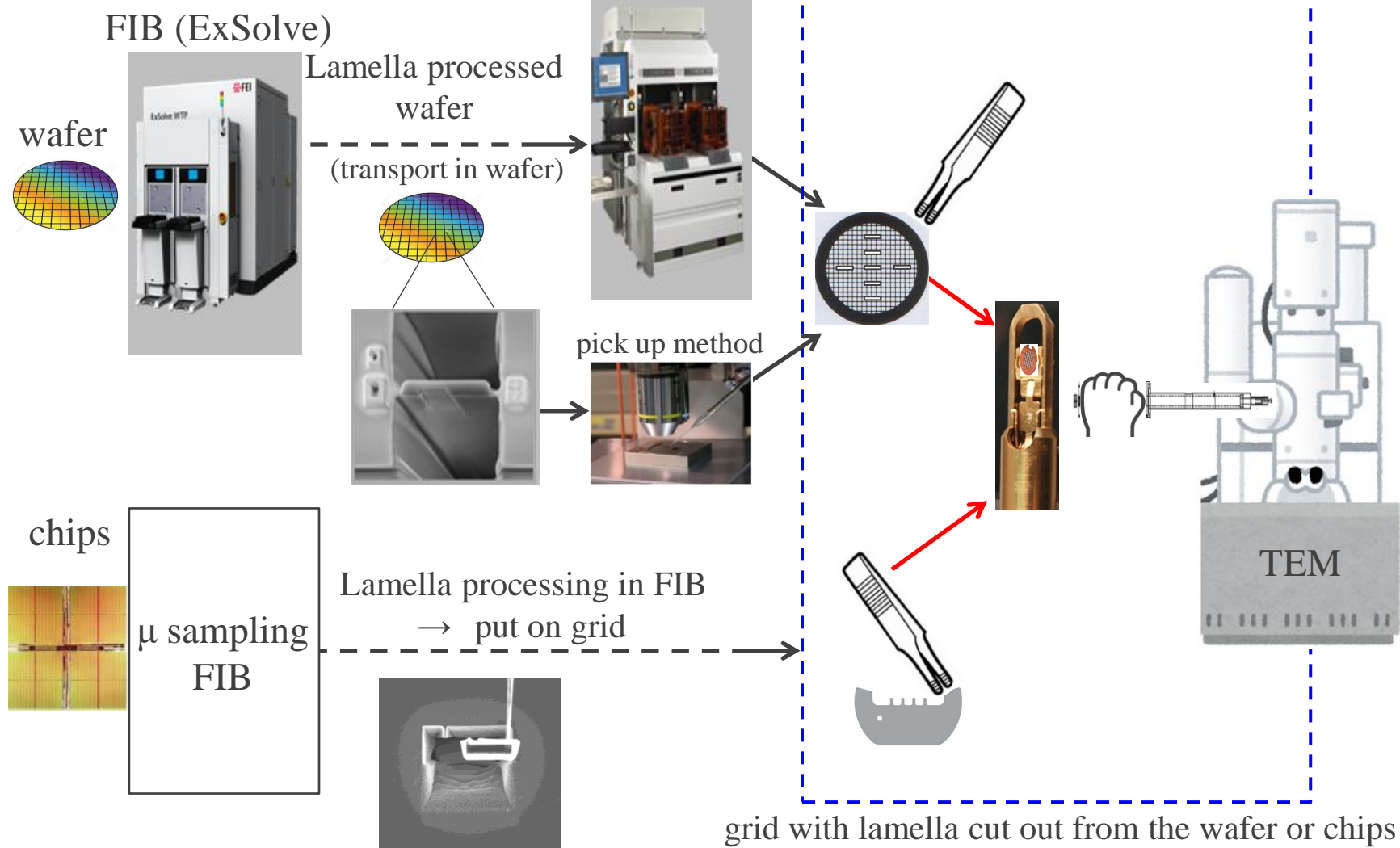
Sample handling → transportation



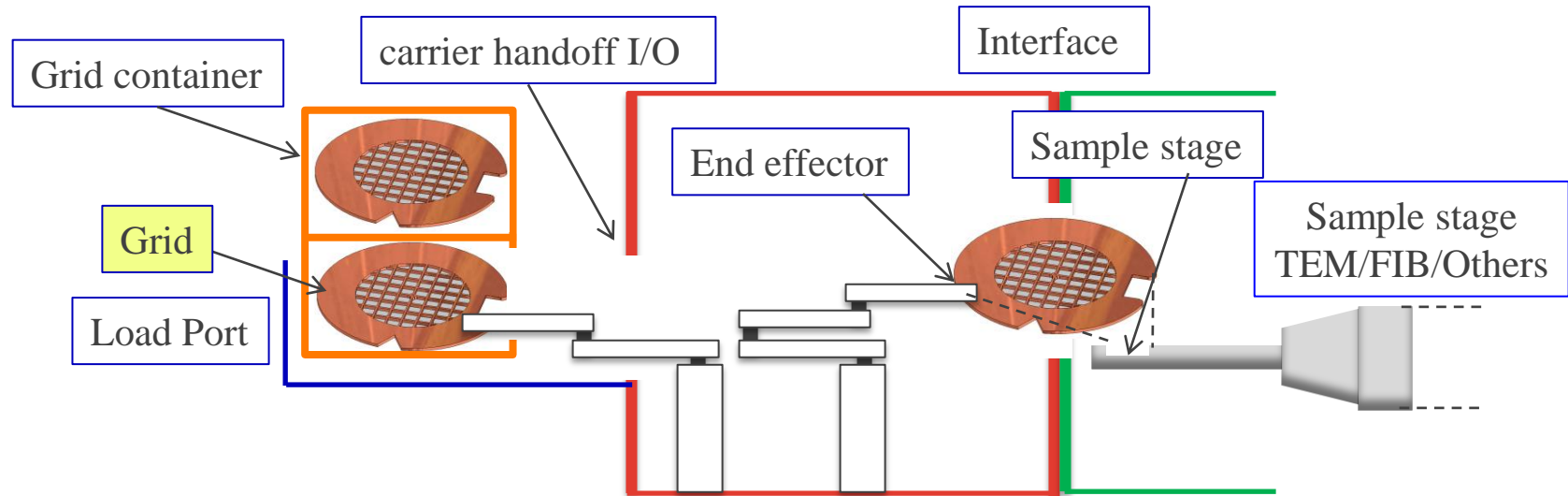
By human intervention, manufacturing and inspection data is lost or not associated.

Scope of workflow requiring automation

TEM link



Technical elements for automated EM workflow



PI&C committee

Grid(on going)

Grid container & Container load port

How to clamp the grid (Electrostatic, vacuum, mechanical•••)

How to transport the grid or grid container between apparatus


Sample stage

Position detection of grid or grid container

Interface (human machine interface, Inter-apparatus interface)

Terminology

Globalization of EM Workflow TF

	N.A (Primary TF)	JA (Liaison TF)
Current mission	Development of Standard	information share
Task	Necessity to realize “Data Factory” <ul style="list-style-type: none"> • Various technical issues (P.5) • Create a standard in a short time 	
Globalized Task Force	<div>  <p>Division of roles, Joint development Share the development of standards between NA and JA. Define priorities and develop standards</p> </div>	

Create Auxiliary Information and clarify standards to be developed.

Conclusion

In order to realize “Data Factory”, even assuming only the part that the PI & C committee is covered, various element technologies are required. In addition , we also need to be able to use the necessary standards on time.

For that purpose, it is necessary to gather Expertise in Global and start work.