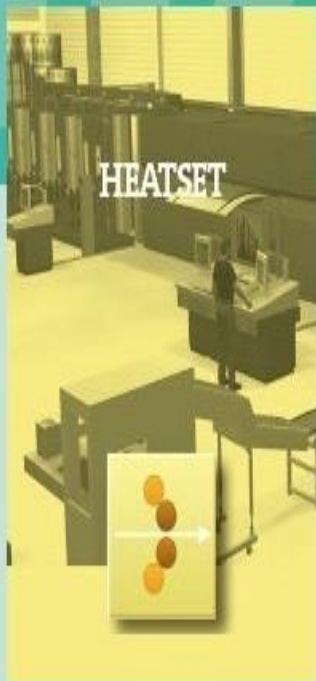
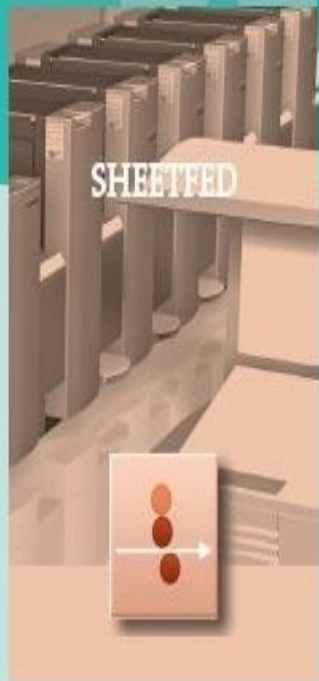




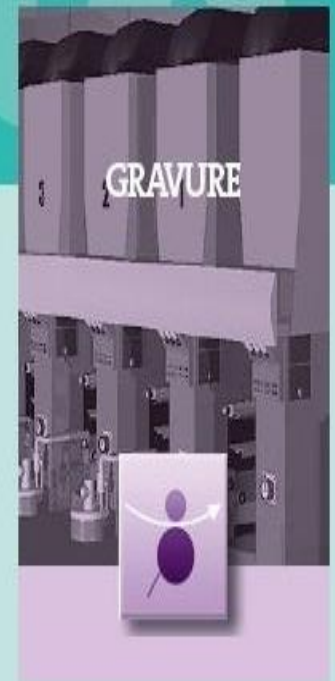
OFFSET SIMULATORS

Offset-Simulatoren



PACKAGING SIMULATORS

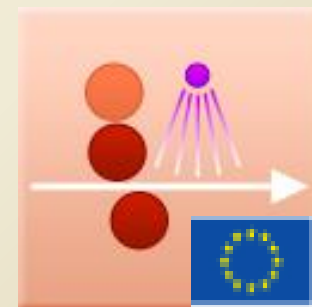
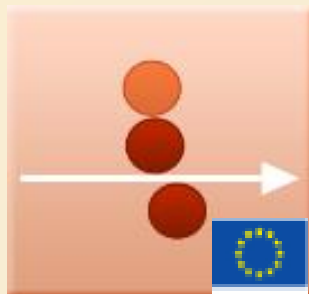
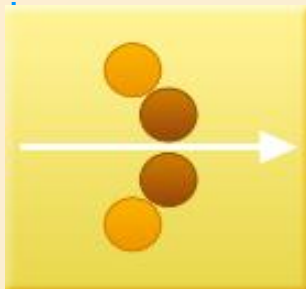
Simulatoren für Verpackungsdruck



Distributed Learning System Management
DLMS

Simulators – Historical Sequence

90s



DLMS

2014



European R&D projects

DLMS : Distributed Learning Management System

Multi-Lingual , Cloud-Based

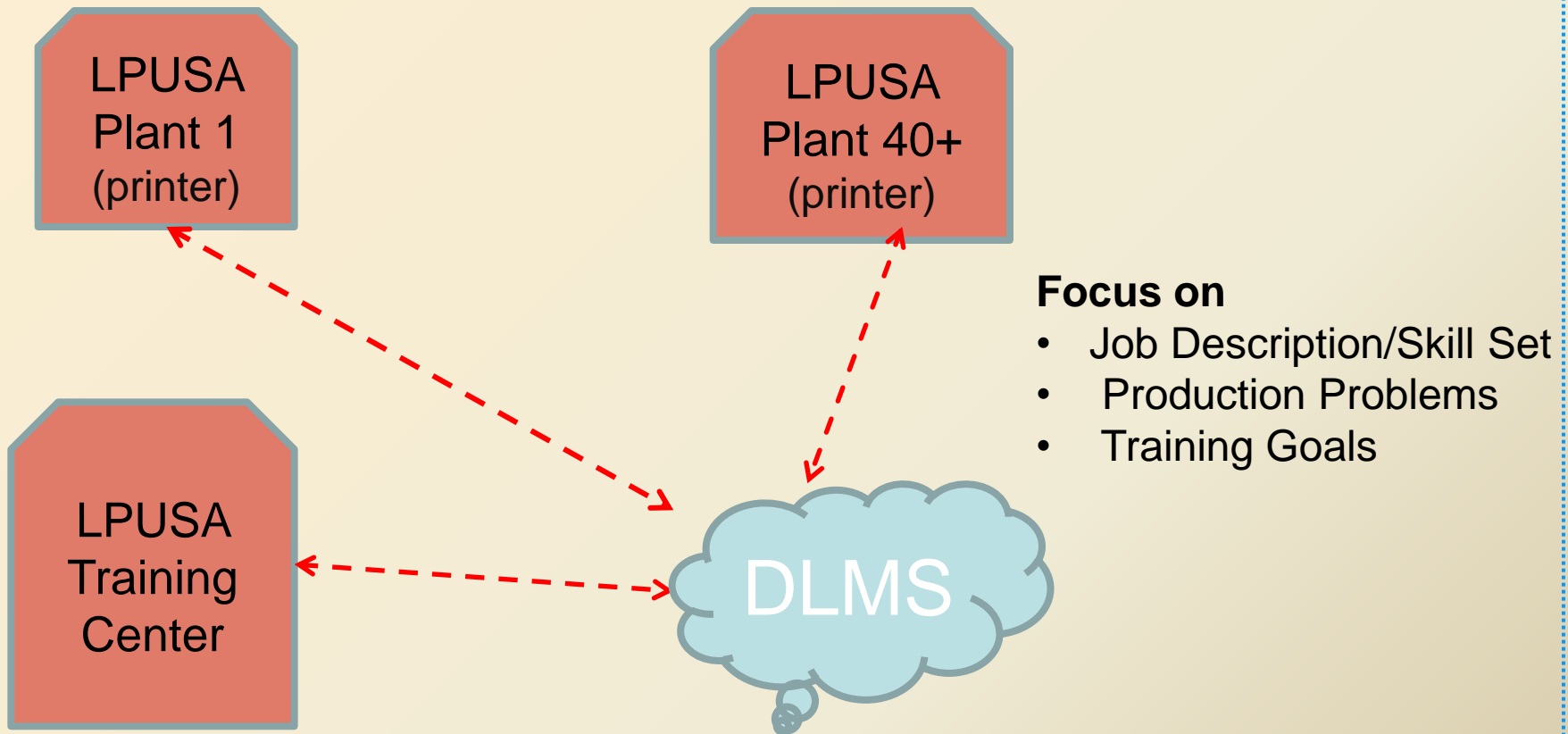


Developed
Markets

Industry

- On-Site Training
 - No Travel
 - Self Directed
 - Technology Driven
- Remote Supervision
 - Different Languages

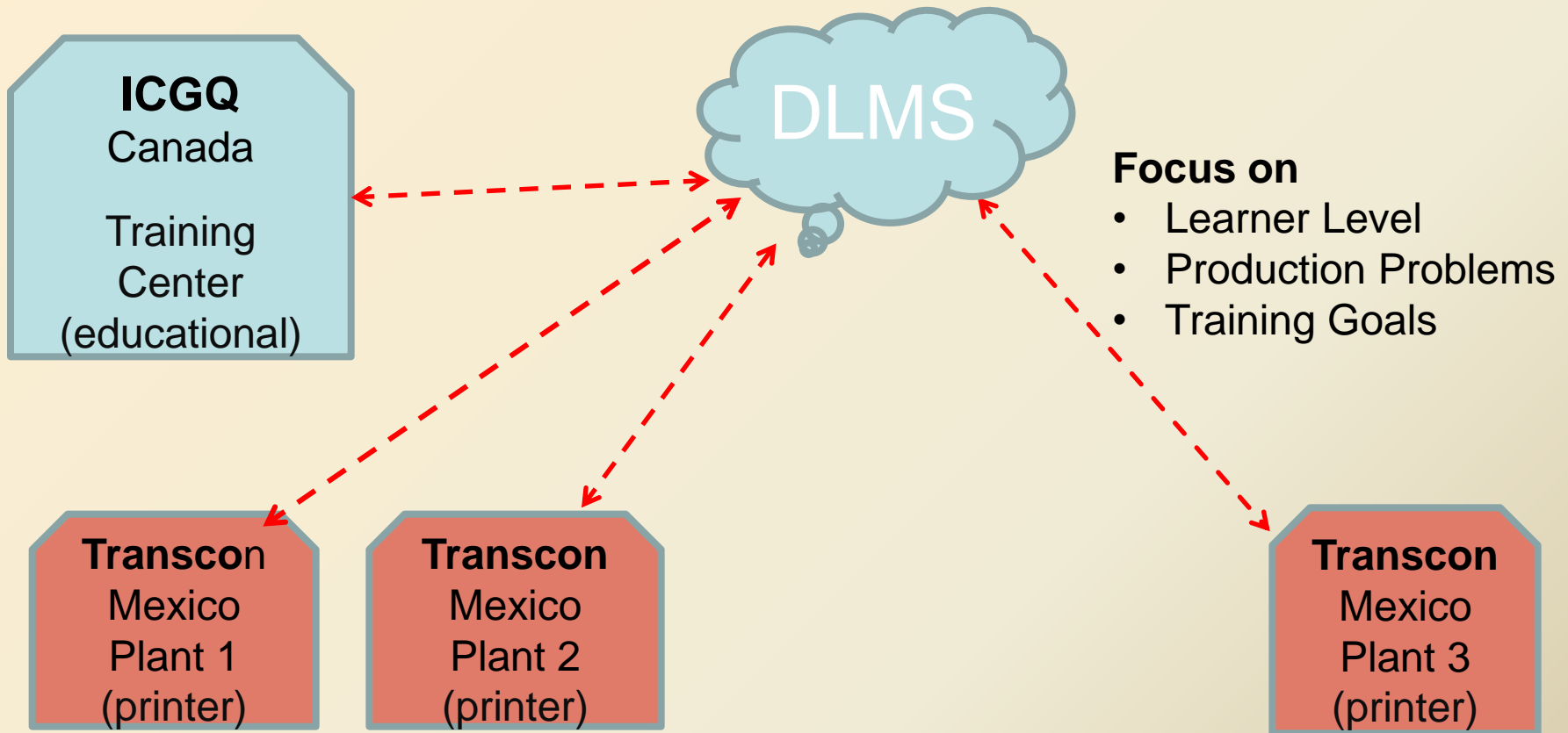
Largest Printer in USA – Remote Supervision – Same Language



Sessions sent over internet. Automatically analysed
Trainers follow and compare individual and group progress.

Imprimerie Transcontinental

Remote Supervision- Different Language



EDUCATORS TRAIN PRINTERS
AT A DISTANCE

DLMS : Distributed Learning Management System

Multi-Lingual , Cloud-Based



Developing
Markets

Education

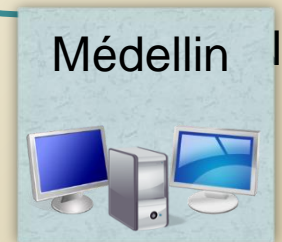
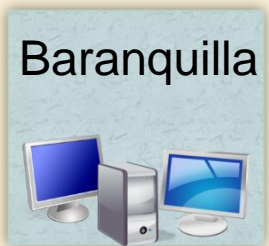
- On-Site Training
 - No Travel
 - Self Directed
 - Technology Driven
- Central Coordination
- Remote Oversight
 - Different Languages

DLMS: in Colombia Nation-Wide



DLMS Reports
Each **Student**
Each **Class**

Each **Center**,
All Centers

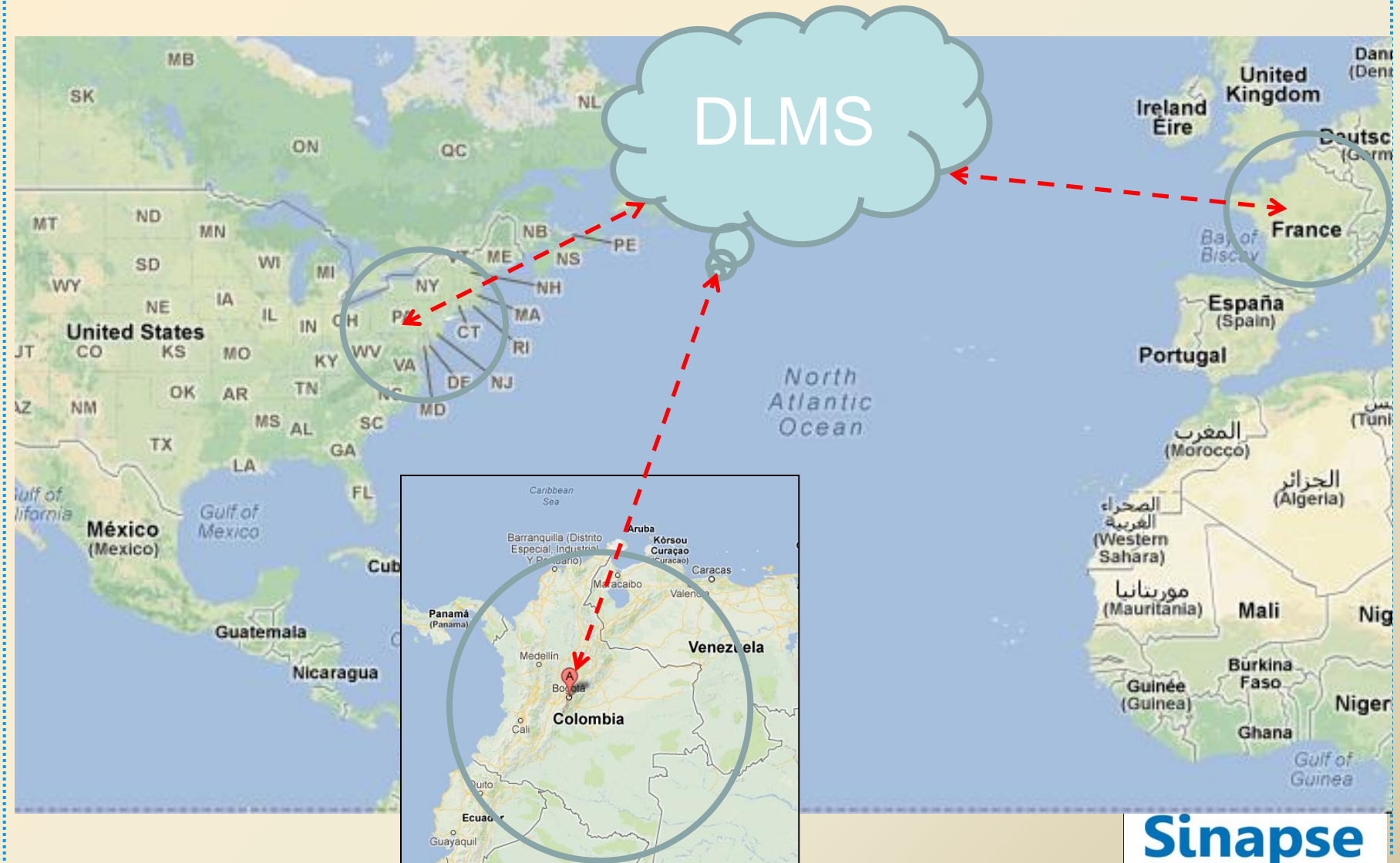


National Technical Training Organisation

Sinapse
Print Simulators

DLMS : International Cooperation & Oversight

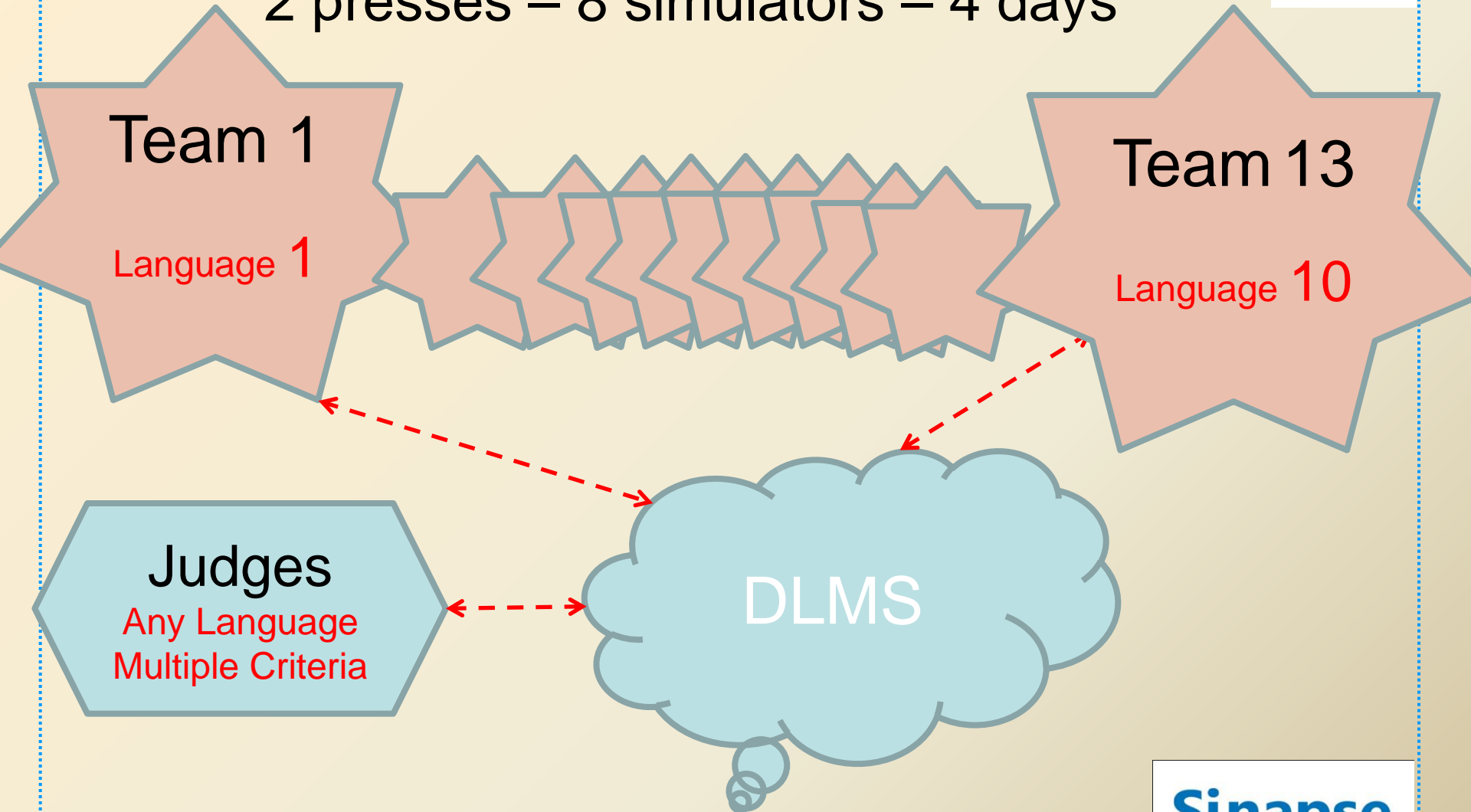
PIA can review (English) **SENA** progress on exercises (Spanish)



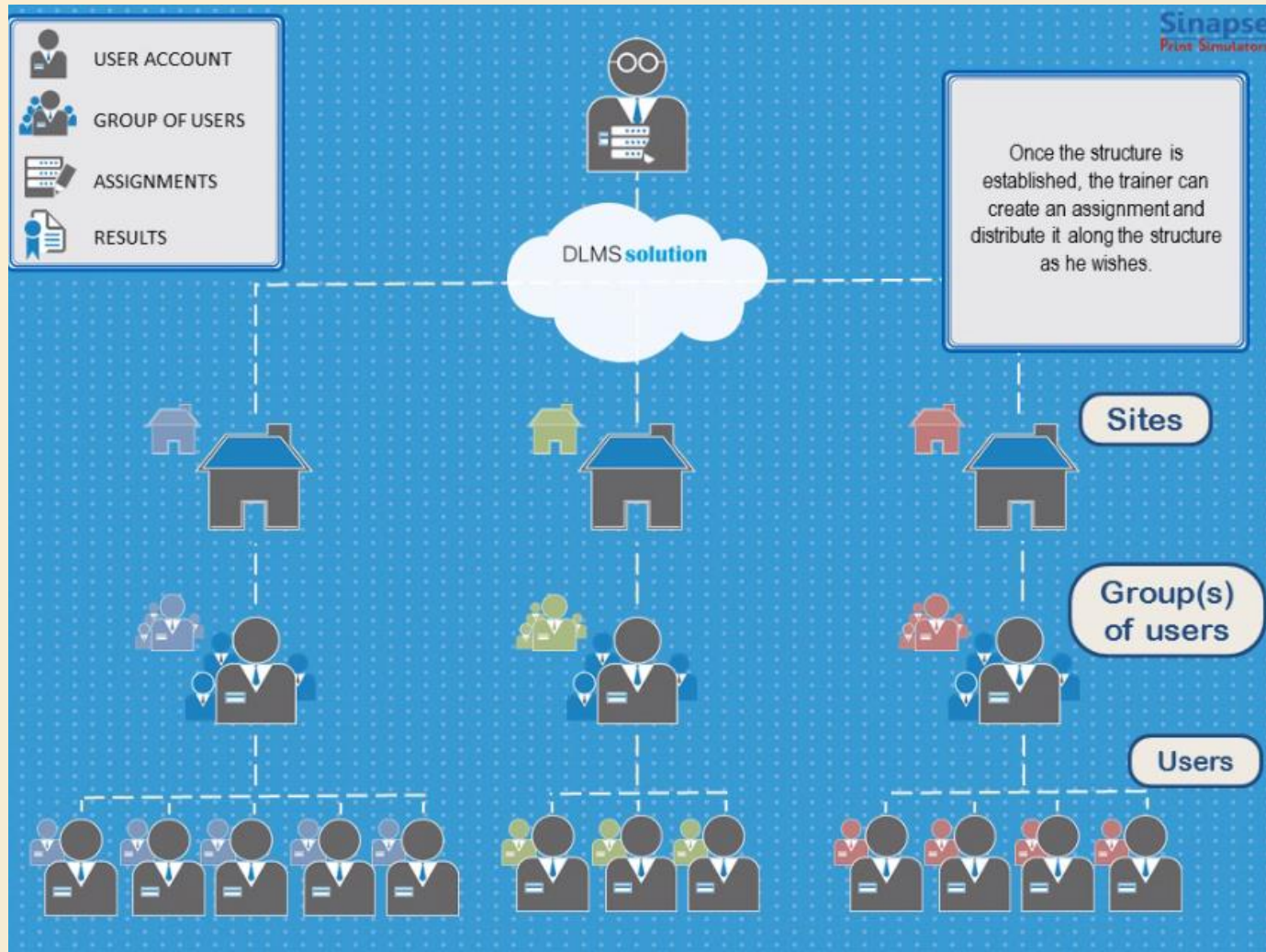
worldskills Leipzig 2013



2 presses – 8 simulators – 4 days



DMLS : A Print-Specific LMS with Automatic Analysis Features



SCORM is Coming

Automatic – Language Independent Evaluation : High Level

User name	Date	Real time	Virtual time	Total waste	Total cost	Cost ref %
Angela	samedi 12 mai 2012	01:02	01:06	1830	2943.00	+299 %
Bryan	mardi 24 avril 2012	00:37	00:56	2790	1909.00	+159 %
Marta	mardi 13 mars 2012	00:18	00:38	1834	1324.00	+79 %
Eva	vendredi 23 mars 2012	00:06	00:34	1663	1186.00	+61 %
Demo 3	dimanche 13 mai 2012	00:18	00:24	782	826.00	+12 %
AVERAGE		00:12	00:21	824	736	
Dave	vendredi 13 avril 2012	00:11	00:21	1054	710.00	-2 %
Demo 4	lundi 7 mai 2012	00:05	00:28	127	641.00	-12 %
Roy	lundi 23 avril 2012	00:01	00:07	345	299.00	-59 %
Charles	vendredi 30 mars 2012	00:07	00:09	268	259.00	-64 %
Enn	vendredi 6 avril 2012	00:01	00:07	372	256.00	-65 %
Diane	mercredi 7 novembre 2	00:01	00:08	430	249.00	-66 %
Maria	vendredi 13 avril 2012	00:03	00:05	282	191.00	-74 %
Lee	vendredi 23 mars 2012	00:05	00:05	265	107.00	-85 %
Yassintha	lundi 26 mars 2012	00:05	00:05	221	90.00	-87 %
Frank	mardi 3 avril 2012	00:02	00:02	111	48.00	-93 %
Thierry						

Goal: quality, lowest waste, lowest production cost

Automatic -User compared to ANY reference :Low Level

ASA : localhost/SinapsePrintSimulators/Demo/Drupa/SheetSim SHOTS/USERS/Angela/SHOTS Demo_22.xml

Idioma: ES

Fichero
Directorios: []
Lista de estudiantes: [Angela]
Lista de ejercicios: [SHOTS Demo]
Roles: [Role10]
 Todos los ejercicios
Lista de referencia: [Eva]

Modo de visualización:
 Reporte
 Rastros de estudiante
 Comparar a la referencia

Fecha: samedi 12 mai 2012

Quittus ● Estatus ●

Filtros | **Buscar**

- Resumen
- Contexto inicial
- Situación 1
 - Malfuncionamientos
 - Acción de usuario
 - Resultado final
- Resultado final
- Acciones del usuario
- Ajustes de consola

Tiempo:
 Total de copias: 3430
 Tiempo de tiraje: 01:02
 Tiempo virtual: 01:08

Costes:
 Coste horario: 1000.00 €
 Coste de material por 1000 copias: 300.0
 Coste del tiempo de tiraje: 1146.00 €
 Coste de verificaciones y de acciones: 0
 Coste de materiales de máquina: 1029.0
 Costo de tinta: 7.00 €
 Costo de papel : 761.00 €
COSTE TOTAL: 2943.00 €
 COSTE CO2: 301.00 kgeqCO2

Resultado final: El ejercicio ha sido completado

Copias:
 Número de copias guardadas (entrega): 1666
 Número de copias descartadas (desperdicio): 1764
 Total de copias: 3430

Tiempo:
 Tiempo de tiraje: 01:02
 Tiempo virtual: 01:08

Costes:
 Coste horario: 1000.00 €
 Coste de material por 1000 copias: 300.0
 Coste del tiempo de tiraje: 1146.00 €
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Copias:
 Número de copias guardadas (entrega): 1666
 Número de copias descartadas (desperdicio): 1764
 Total de copias: 1666

Tiempo:
 Tiempo de tiraje: 00:06
 Tiempo virtual: 00:34

Costes:
 Coste horario: 1000.00 €
 Coste de material por 1000 copias: 300.0
 Coste del tiempo de tiraje: 575.00 €
 Coste de verificaciones y de acciones: 0
 Coste de materiales de máquina: 499.0
 Costo de tinta: 112.00 €
COSTE TOTAL: 1186.00 €

Resultado final: El ejercicio ha sido completado

Copias:
 Número de copias guardadas (entrega): 1666
 Número de copias descartadas (desperdicio): 1764
 Total de copias: 1666

Tiempo:
 Tiempo de tiraje: 00:06
 Tiempo virtual: 00:34

Costes:
 Coste horario: 1000.00 €
 Coste de material por 1000 copias: 300.0
 Coste del tiempo de tiraje: 575.00 €
 Coste de verificaciones y de acciones: 0
 Coste de materiales de máquina: 499.0
 Costo de tinta: 112.00 €
COSTE TOTAL: 1186.00 €

Meta-
Class
Control
Quality

Class of
Action
Measure
Density

Action
Use
Densi-
tometer

2nd International Simulator Competition :

:

RYERSON UNIVERSITY



上海理工大学
University of Shanghai for Science and Technology



150+ Contestants : 2 Finalists – Live at Drupa .

Nikita Kuzmin : Ryerson University.- 2nd year

Wei Ruochen : USST- 4th year
(University of Shanghai for Science and Technology).

EDUCATORS TRAIN & EVALUATE :

PRINTERS

STUDENTS

- ON SITE
- **AT A DISTANCE**

EDUCATORS DESIGN TRAINING

THE DLMS can be of help for these goals

I look forward to further discussion

DLMS descriptions are available in multiple languages

peter.herman@sinapseprint.com