

JaSakai/AXIES/IMS 合同カンファレンス IMS 技術標準の導入状況 -Learning Analytics

2019年03月25日

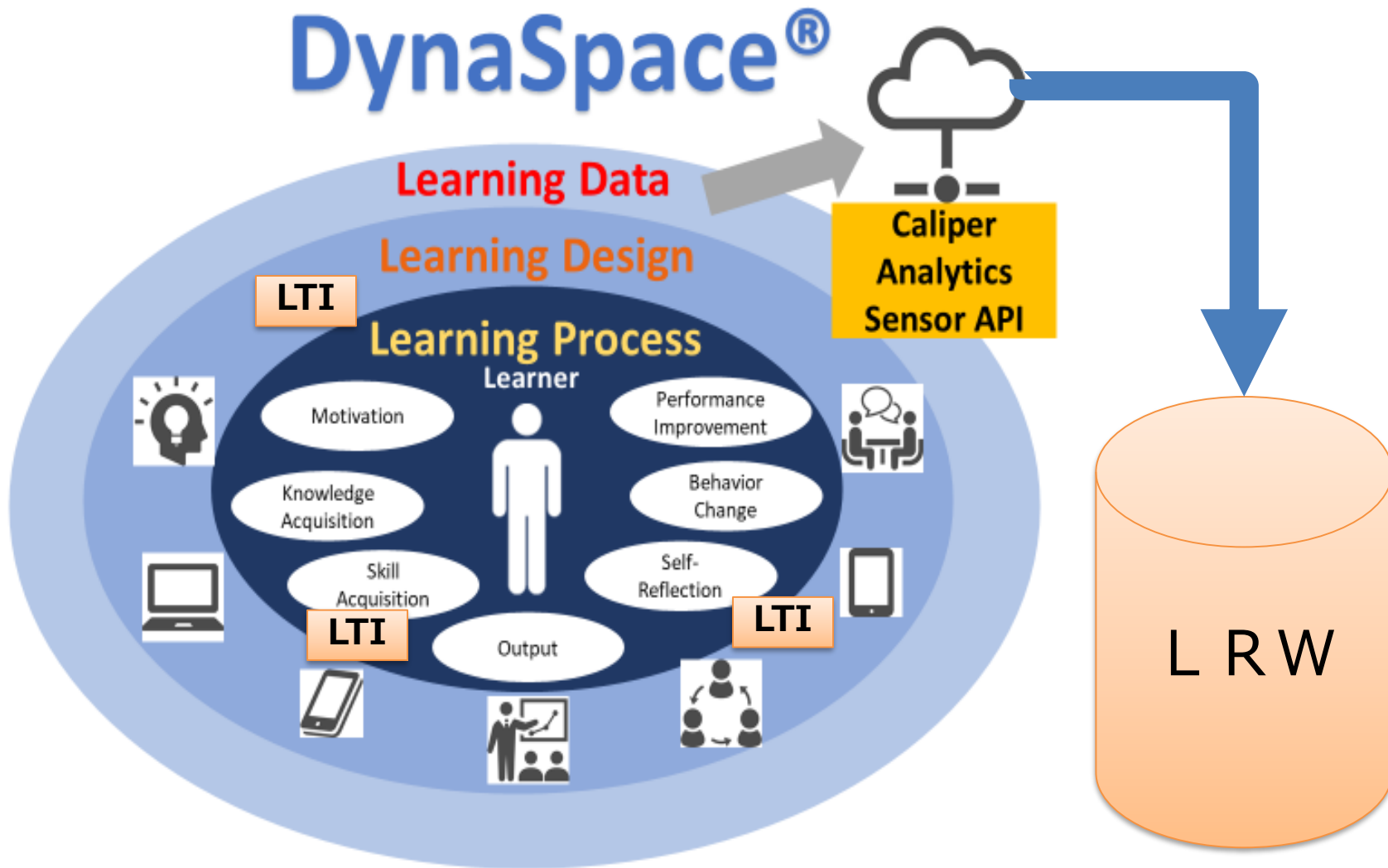
IMS Global認定 訓練/実装支援管理士
李 在範

NetLearning® Quality.

ネットラーニングの事例

- 2016年 Caliper Analytics®国内初認定
- 2017年 LTI®認定
- 2019年 Open Badges V2.0認定準備
→ サービスはHostサービスから認定準備

サービスイメージ図(Service Image)



生データ (RAW DATA) JSON-LD

MediaEvent

rawdata

```
{ "_id" : ObjectId("5bf4c8d26f43420064c6dbbe"), "sensor" : "multiverse-media-1003695", "sendTime" : "2018-11-21T02:54:10.7656587Z", "data" : [{" @context" : "http://purl.imsglobal.org/ctx/caliper/v1/Context", "@type" : "http://purl.imsglobal.org/caliper/v1/MediaEvent", "actor" : { "@context" : "http://purl.imsglobal.org/ctx/caliper/v1/Context", "@id" : "https://nlp.netlearning.co.jp/user/14813831", "@type" : "http://purl.imsglobal.org/caliper/v1/lis/Person", "name" : "RABDA00007", "description" : null, "extensions" : {}, "dateCreated" : null, "dateModified" : "2018-11-12T06:20:53Z", "action" : "http://purl.imsglobal.org/vocab/caliper/v1/action#ChangedSize", "object" : { "@context" : "http://purl.imsglobal.org/ctx/caliper/v1/Context", "@id" : "https://nlp.netlearning.co.jp/MediaObject/https://vod3.netlearning.co.jp/course/_definst_/mp4:30004B11/30004B11_11-L.mp4/playlist.m3u8", "@type" : "http://purl.imsglobal.org/caliper/v1/MediaObject", "name" : "playlist.m3u8", "description" : null, 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"https://nlp.netlearning.co.jp/session/3522b55e-eadf-4153-8bd2-e26a65ffa0c7", "description" : null, "actor" : { "@context" : "http://purl.imsglobal.org/ctx/caliper/v1/Context", "@id" : "https://nlp.netlearning.co.jp/user/14813831", "@type" : "http://purl.imsglobal.org/caliper/v1/lis/Person", "name" : "RABDA00007", "description" : null, "extensions" : {}, "dateCreated" : null, "dateModified" : "2018-11-12T06:20:53Z", "startedAtTime" : "2018-11-21T02:54:00.573Z", "endedAtTime" : null, "duration" : null, "extensions" : {}, "dateCreated" : "2018-11-21T02:54:00.573Z", "dateModified" : "2018-11-21T02:54:00.573Z", "eventTime" : "2018-11-21T02:54:09.8849987Z", "edApp" : { "@context" : "http://purl.imsglobal.org/ctx/caliper/v1/Context", "@id" : "https://purl.imsglobal.org/caliper/v1/SoftwareApplication", "name" : "Multiverse", "description" : null, "extensions" : {}, "dateCreated" : "2010-01-31T15:00:00Z", "dateModified" : "2017-02-15T15:00:00Z", "group" : { "@context" : 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```

加工されたデータ (Converted Data)

id	sensor	sendTime	data_actor_i	data_actor_r	data_action	data_eventT	data_edApp_	data_edApp_	data_group_i	data_group_name	
5bf4c8d26f43	multiverse-me	2018-11-21 1	https://nlp.ne	RABDA00007	http://purl.im	2018-11-21 1	https://nlp.ne	Multiverse	https://nlp.ne	Learning Impact	["_ic
5bf4c8e36f43	multiverse-me	2018-11-21 1	https://nlp.ne	RABDA00007	http://purl.im	2018-11-21 1	https://nlp.ne	Multiverse	https://nlp.ne	Learning Impact	["_ic
5bf4c8e46f43	multiverse-me	2018-11-21 1	https://nlp.ne	RABDA00007	http://purl.im	2018-11-21 1	https://nlp.ne	Multiverse	https://nlp.ne	Learning Impact	["_ic
5bf4c8e56f43	multiverse-me	2018-11-21 1	https://nlp.ne	RABDA00007	http://purl.im	2018-11-21 1	https://nlp.ne	Multiverse	https://nlp.ne	Learning Impact	["_ic
5bf4c8e56f43	multiverse-me	2018-11-21 1	https://nlp.ne	RABDA00007	http://purl.im	2018-11-21 1	https://nlp.ne	Multiverse	https://nlp.ne	Learning Impact	["_ic
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5bf4c8e66f43	multiverse-me	2018-11-21 1	https://nlp.ne	RABDA00007	http://purl.im	2018-11-21 1	https://nlp.ne	Multiverse	https://nlp.ne	Learning Impact	["_ic
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5bf4c8e66f43	multiverse-me	2018-11-21 1	https://nlp.ne	RABDA00007	http://purl.im	2018-11-21 1	https://nlp.ne	Multiverse	https://nlp.ne	Learning Impact	["_ic
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5bf4c8f26f43	multiverse-me	2018-11-21 1	https://nlp.ne	RABDA00007	http://purl.im	2018-11-21 1	https://nlp.ne	Multiverse	https://nlp.ne	Learning Impact	["_ic
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5bf4c8f46f43	multiverse-me	2018-11-21 1	https://nlp.ne	RABDA00007	http://purl.im	2018-11-21 1	https://nlp.ne	Multiverse	https://nlp.ne	Learning Impact	["_ic
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学習者へのフィードバック

①総視聴時間

あなた	受講者平均 (全19名)	順位 (長いほうから)	1位の総視聴時間
2時間55分47秒	2時間2分25秒	2位/19位	4時間56分14秒

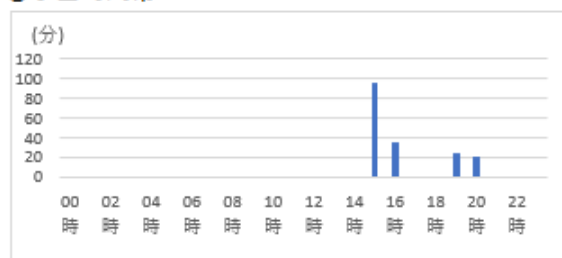
②単元ごとの学習状況

ステップ	タイトル	視聴度数		視聴回数		
		あなた	受講者平均	あなた	受講者平均	
1 2 3 4	ヒアリング	XXXXXXXXXX	1.00	0.48	1.00	0.50
		XXXXXXXXXX	0.68	0.52	2.00	0.71
		XXXXXXXXXX	1.44	0.61	2.00	0.75
		XXXXXXXXXX	0.77	0.70	2.00	0.75
5 6 7 8	プロポーシング	XXXXXXXXXX	2.48	0.74	2.00	0.75
		XXXXXXXXXX	1.00	0.66	1.00	0.71
		XXXXXXXXXX	1.06	0.72	1.00	0.75
		XXXXXXXXXX	2.11	0.79	2.00	0.92
9 10 11	クロージング	XXXXXXXXXX	1.81	0.73	3.00	0.92
		XXXXXXXXXX	0.98	0.79	1.00	0.96
		XXXXXXXXXX	1.97	0.86	2.00	1.00
合計		15.30	7.62	19.00	8.71	

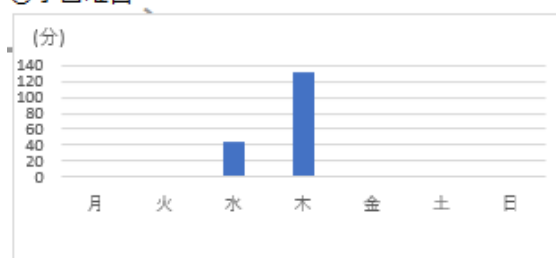
※視聴度数とは、動画時間に対する視聴時間の割合です。

※視聴回数とは、視聴時間に関わらず動画を再生した回数です。

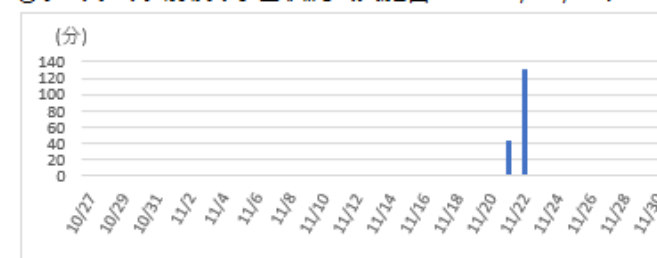
③学習時間帯



④学習曜日



⑤ワークショップ前後の学習状況 (実施日: 2018/11/26)



ご清聴ありがとうございました。

NetLearning® Quality.