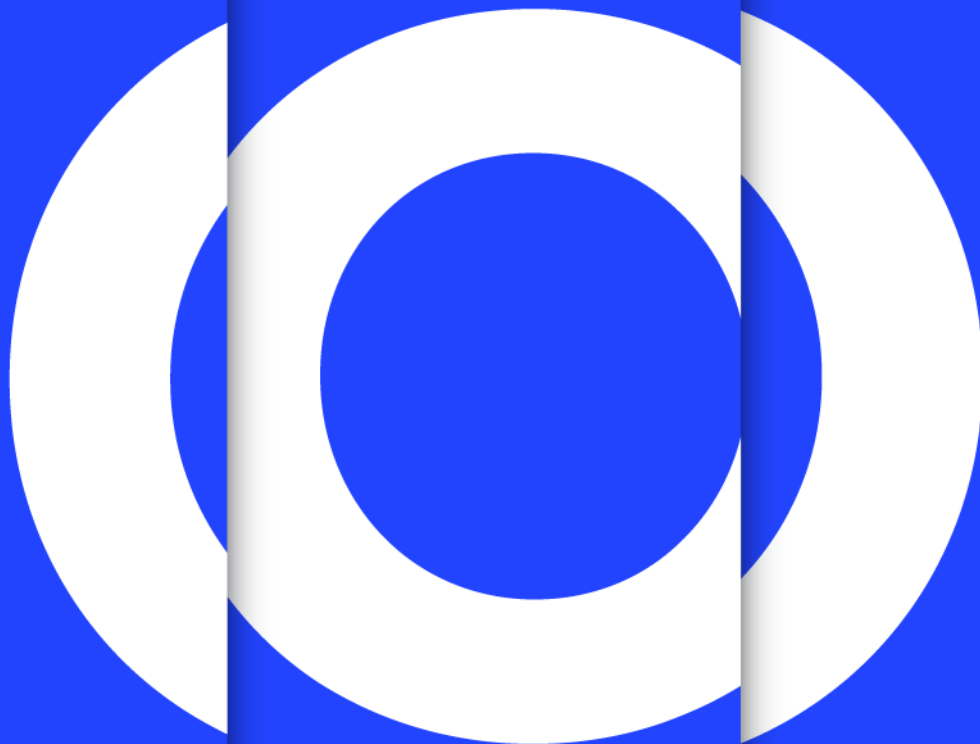


EBU

OPERATING EUROVISION AND EURORADIO

EBU MDN 2016
Geneva, June 7-8th, 2016

SPORT METADATA
WORKFLOW



EBU & SPORT – KEY BUSINESS

Sports at EBU: athletics, biathlon, cycling, football, skiing, skatings, rallying, etc.

- Sport rights acquisition, event coordination, event production
- Portfolio: 30 sport federations, 120 events, 500 days of competition
- Audiovisual content, photos, documents and a bulk of data

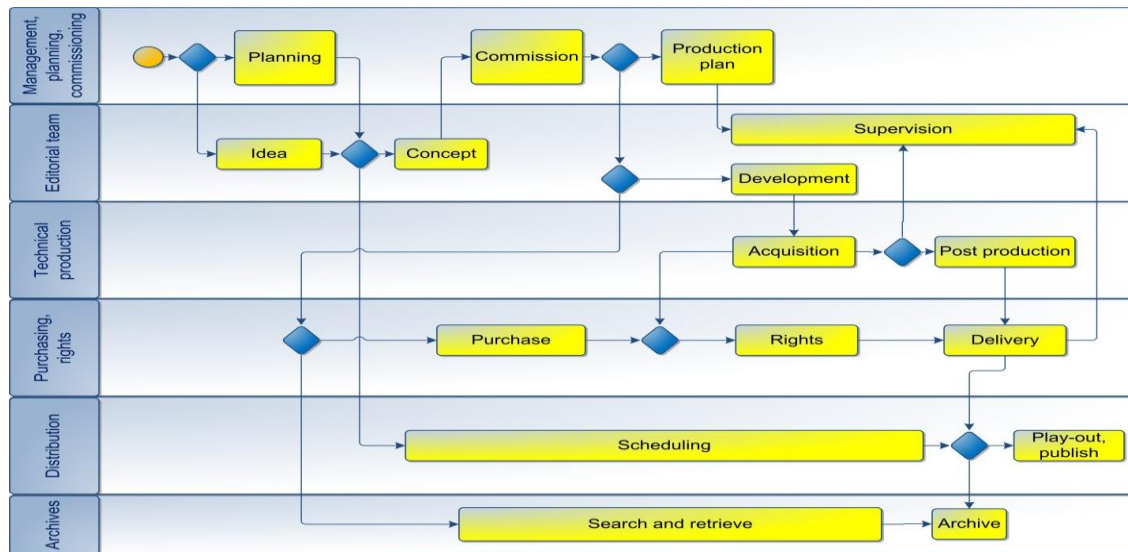


Enrich the experience: link resources to data

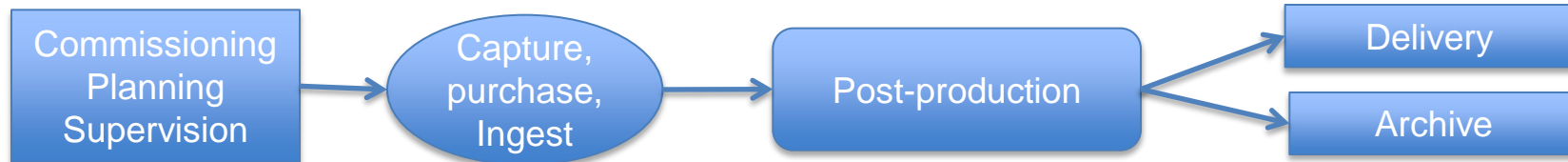
METADATA WORKFLOWS

- Did you ever Google for it? Not much coming out of searches
- Metadata workflows are not yet a first class citizen while metadata now is
- Let's try taking a look at it...

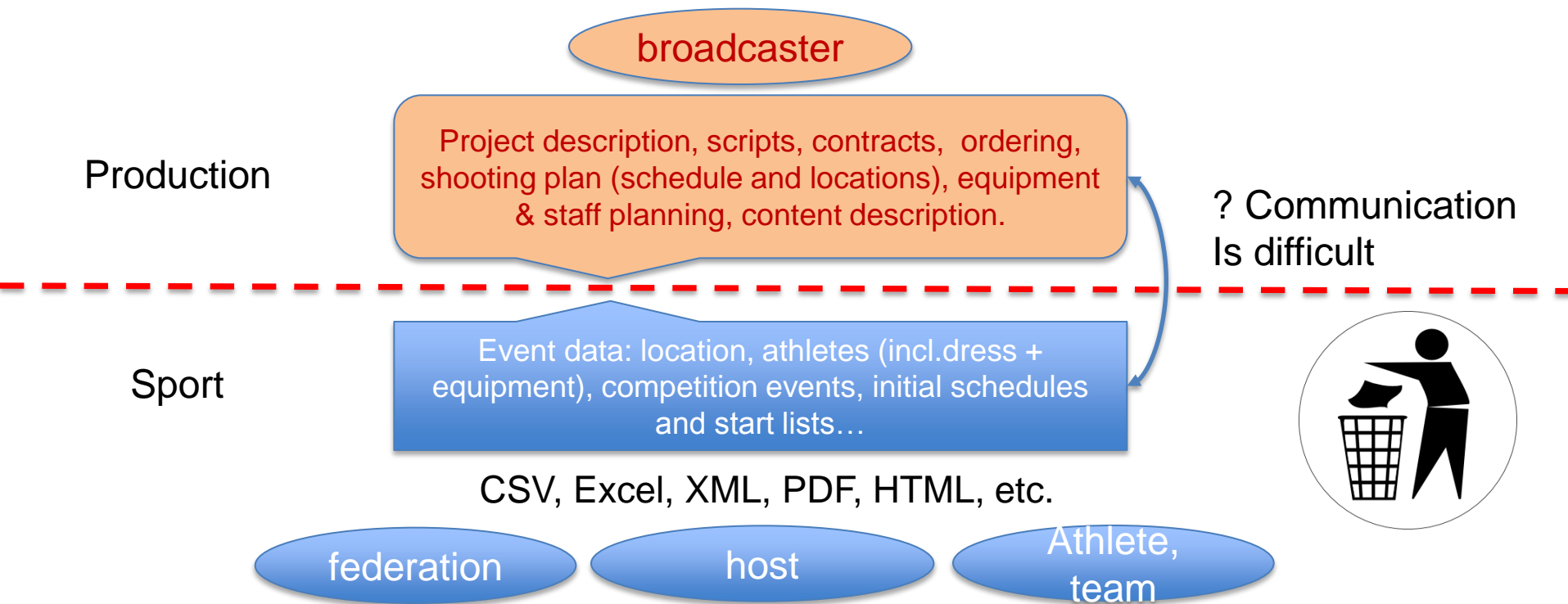
IS IT THAT DIFFERENT FROM CONTENT WORKFLOWS?



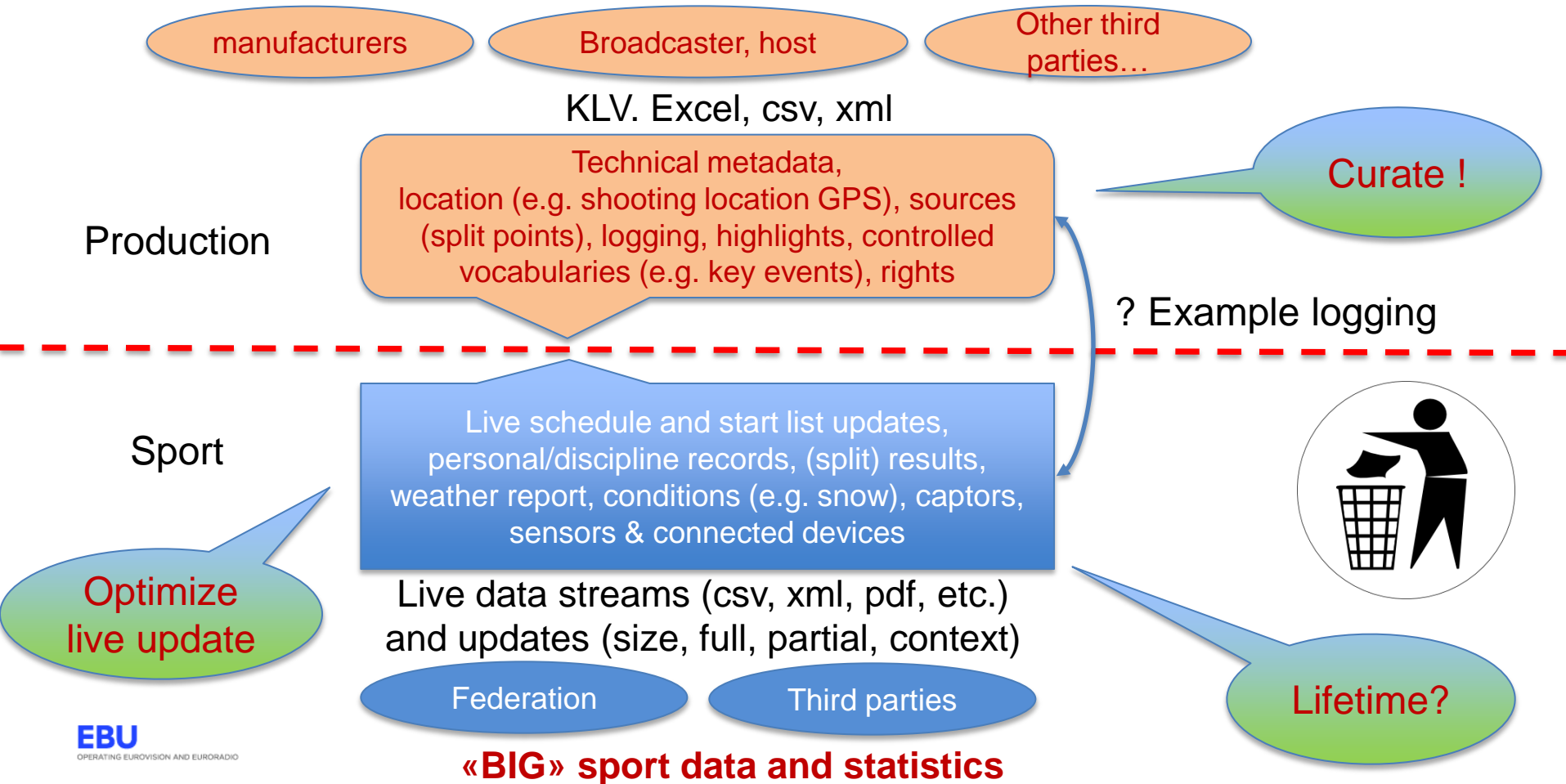
Basic
workflow



COMMISSIONING, PLANNING, SUPERVISION



CAPTURE, INGEST



POST-PRODUCTION

Broadcaster

MAM provider

Conversion, formatting (ontology), storage, processing, querying, applying

Production

EDL, source material, segmentation,
Offline logging, annotation, highlights, timed data,
Data management (conversion, storage), search, retrieval,
graphics, resource(object identification, archive metadata, ,
metadata packaging, rights

?

Sport

Data conversion (e.g. to xml-rdf using EBUSport), storage
Metadata enrichment

Live data streams (csv, xml, pdf, etc.) and updates

Broadcaster?

Mam provider?

LOD providers



DELIVERY OR ARCHIVES

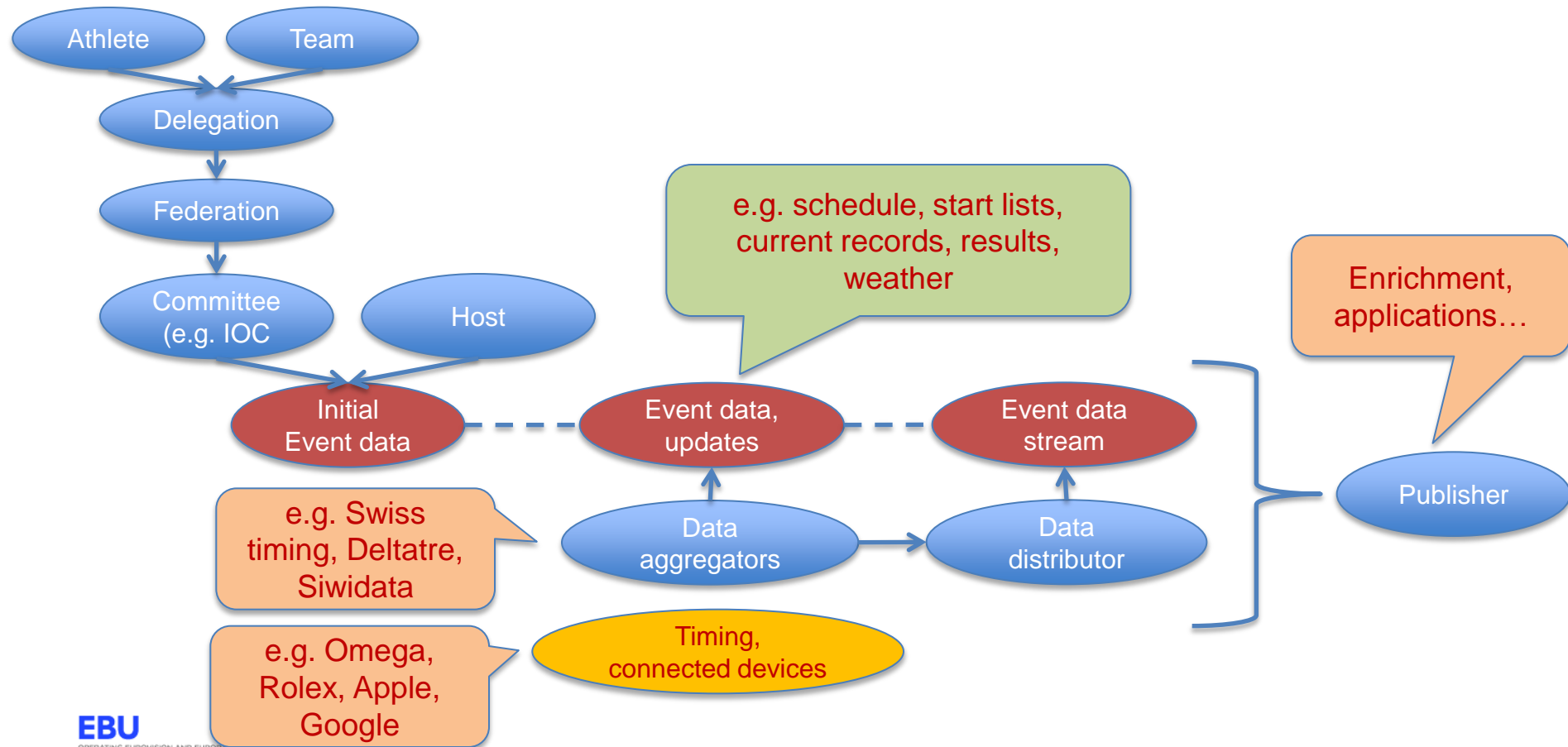
Delivery -> Schedule + content + embedded data (graphics) + applications (query interface, various data formats such as beans or json)

Archive -> content (plus editorial object / resource tech/desc metadata)
+ embedded data (graphics)
+ logging data -> timed text / subtitles ?
+ sport data (results, etc.) -> actually not
+ applications / portal

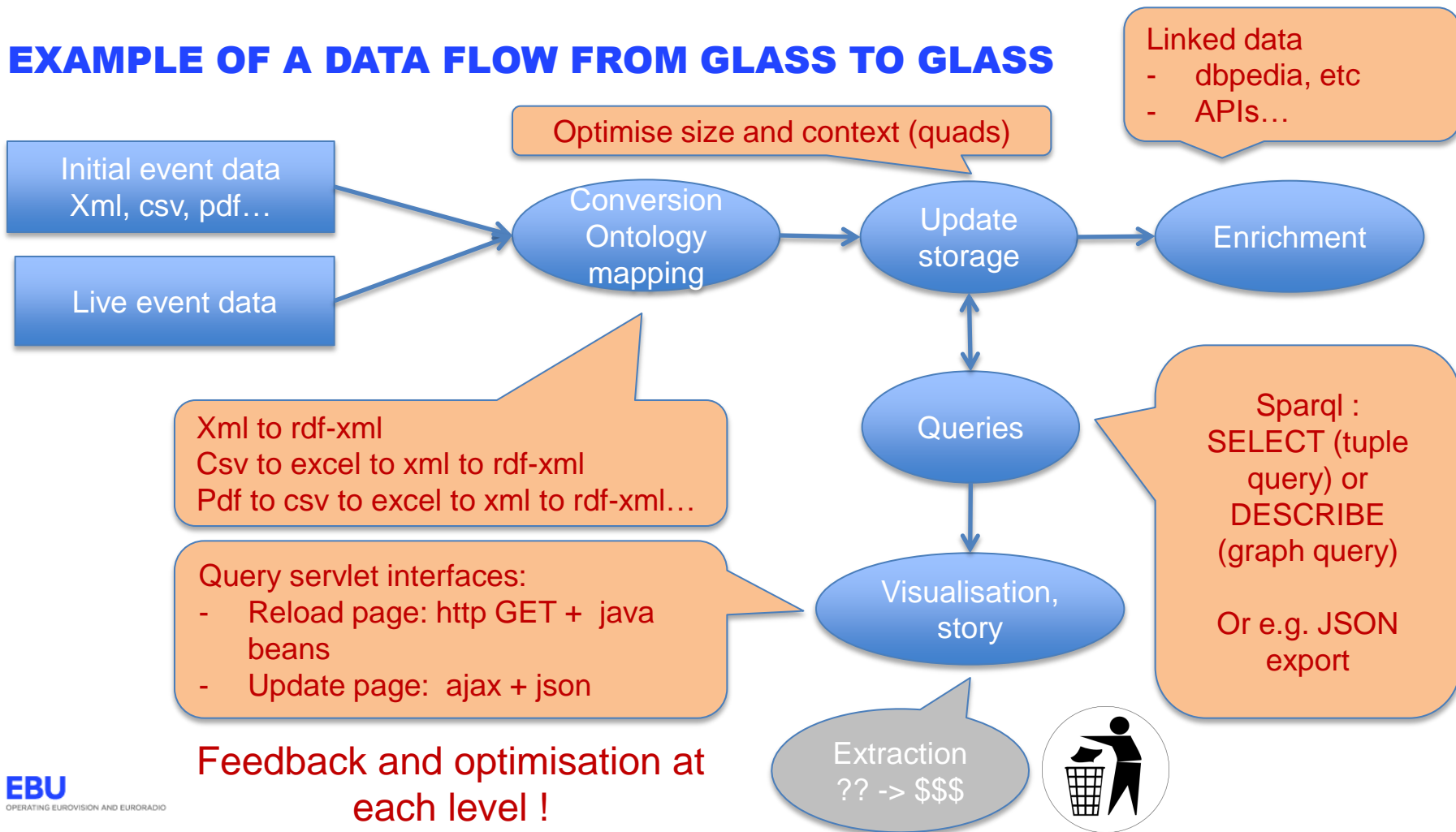
Using RDF allows linking efficiently all the metadata and objects / resources

(See the EBU biathlon PoC)

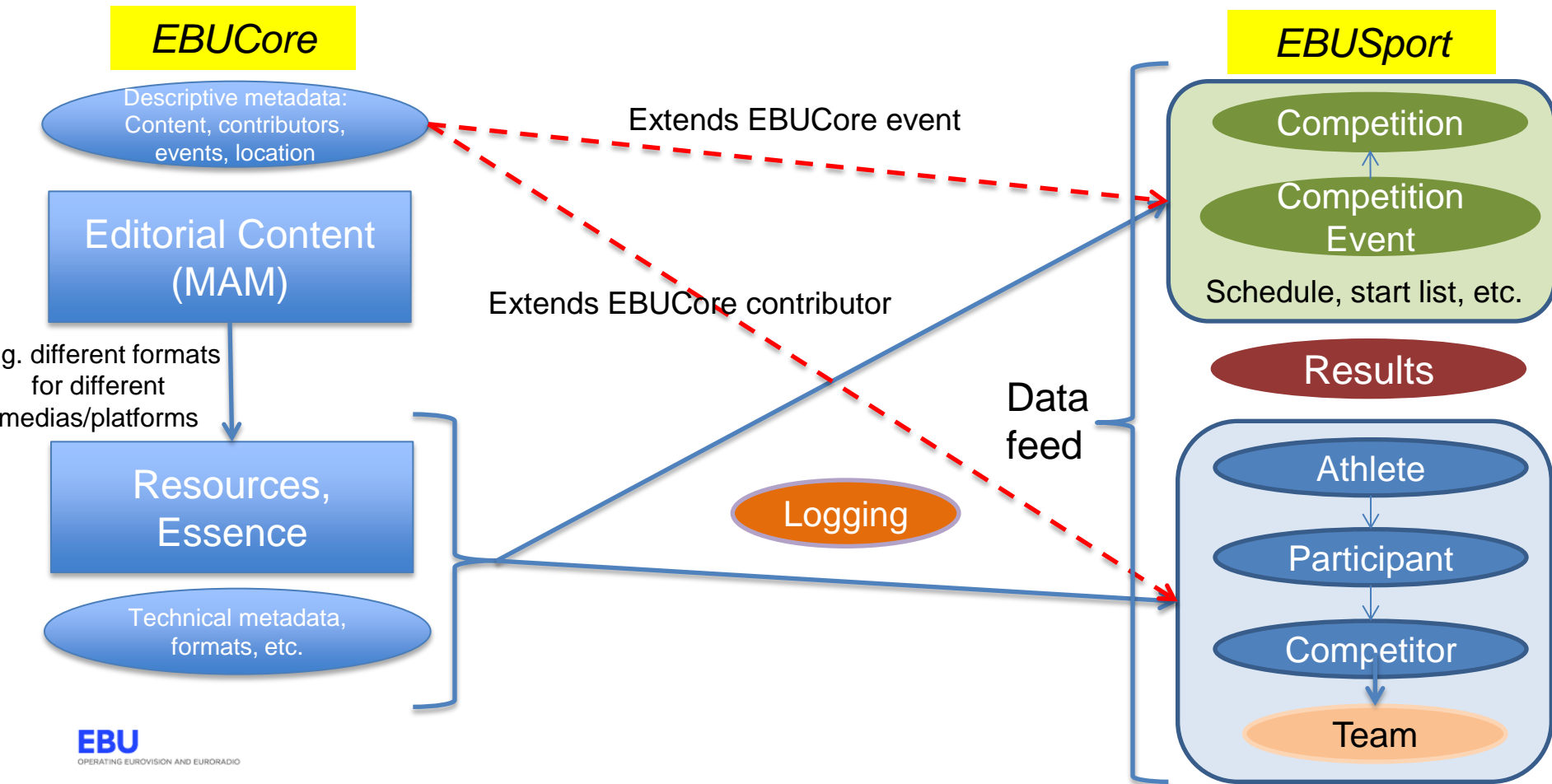
ROLES (1ST ITERATION)



EXAMPLE OF A DATA FLOW FROM GLASS TO GLASS



EBUSPORT AND EBUCORE (MEDIAS, EVENTS, PERSONS,...)



BIATHLON POC 2016, GETTING OUT OF THE BOX!

A few screenshots from the live demonstration...

EBUSport: Semantic data for Sport!

Proof of Concept: biathlon

Disclaimer: This is provided, as is, only for demonstration and R&D purposes. All data is the property of the IBU (c) 2015.
The application and the EBUSport ontology are under EBU Copyright (c) 2016




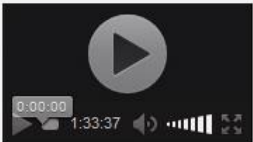

Enter

EBUSport - Semantic Data for Sport



EBUSport HOME QUERIES SPARQL LIVE CONTACT



Name	Video	File size	Format	Event
Kontiolathti 2015 - Mixed relay - edited		456982528	mp4	IBU World Championships / 14-15 / Kontiolahti - FIN - Mixed 2x6+2x7.5 km Relay
Kontiolathti 2015 - Mixed relay		508859392	mp4	IBU World Championships / 14-15 / Kontiolahti - FIN - Mixed 2x6+2x7.5 km Relay
Kontiolathti 2015 - Men 4x7.5 km Relay - ARD		432659456	mp4	IBU World Championships / 14-15 / Kontiolahti - FIN - Men 4x7.5 km Relay
Kontiolathti 2015 - Men 4x7.5 km Relay - full		504578048	mp4	IBU World Championships / 14-15 / Kontiolahti - FIN - Men 4x7.5 km Relay
Kontiolathti 2015 - Women 4x6 km Relay -		336309248	mp4	IBU World Championships / 14-15 / Kontiolahti - FIN - Women 4x6

EBUSport - Semantic Data for Sport



EBUSport HOME QUERIES SPARQL LIVE CONTACT

IBU World Championships / 14-15 - Kontiolahti - FIN

Location

Name	date
Kontiolahti - FIN	03/03/2015

Competition events

IBU World Championships / 14-15 / Kontiolahti - FIN - Mixed 2x6+2x7.5 km Relay
IBU World Championships / 14-15 / Kontiolahti - FIN - Men 20 km Individual
IBU World Championships / 14-15 / Kontiolahti - FIN - Men 15 km Mass Start
IBU World Championships / 14-15 / Kontiolahti - FIN - Men 12.5 km Pursuit
IBU World Championships / 14-15 / Kontiolahti - FIN - Men 4x7.5 km Relay
IBU World Championships / 14-15 / Kontiolahti - FIN - Men 10 km Sprint
IBU World Championships / 14-15 / Kontiolahti - FIN - Women 15 km Individual

Delegations

WC2015 - AUS	
WC2015 - AUT	
WC2015 - BEL	
WC2015 - BLR	
WC2015 - BUL	
WC2015 - CAN	
WC2015 - CHN	
WC2015 - CZE	



FOURCADE Martin

Place Of Birth	Ceret - FRA
Date Of Birth	14/09/1988
Place of Residence	LA LLAGONNE
Country Of Residence	FRA
Occupation	Soldier
Marital status	Engaged
Family Information	daughter Manon
Hobbies	Cycling, running, windsurfing
Language(s)	French, English
Height	186
Weight	78

Equipment

Skis	Rossignol
Wax	
Poles	One Way
Binding	Rottefella
Rifle	Anschutz
Munitions	
Gloves	
Goggles	Julbo
Ski Suit, Clothing	Ski suit: One Way / Clothing: One Way

EBUSport - Semantic Data for Sport



EBUSport HOME QUERIES SPARQL LIVE CONTACT

Init



Search athletes

nor



Search competitions



Search videos



IBU World Championships / 14-15 / Kontiolahti - FIN - Mixed 2x6+2x7.5 km Relay

IBU World Championships / 14-15 - Kontiolahti - FIN

Location: Kontiolahti - FIN

Date: 05.03.2015 - 17:15:00

[Start List](#)

Videos



[More](#)



[More](#)

Documents



[Analysis](#)



[Extended](#)




[Summary](#)



[Zeroing](#)

Results

Rank	Time	Team	
1	1:00:05.7	 BLR	More...

Editorial Object: Kontiolathti 2015 - Mixed relay - edited

Identifier: productionId

Date created: March 2015

Title: Kontiolathti 2015 - Mixed relay

Description: Kontiolathti 2015 - Mixed relay - 2x6km & 2x7.5km, edited, Russian ad inserts

Media Resources



MXRL_kontoliahti_2015_1

Format: mp4

File size: 456982528

'Locator'

'Logging'

Related events

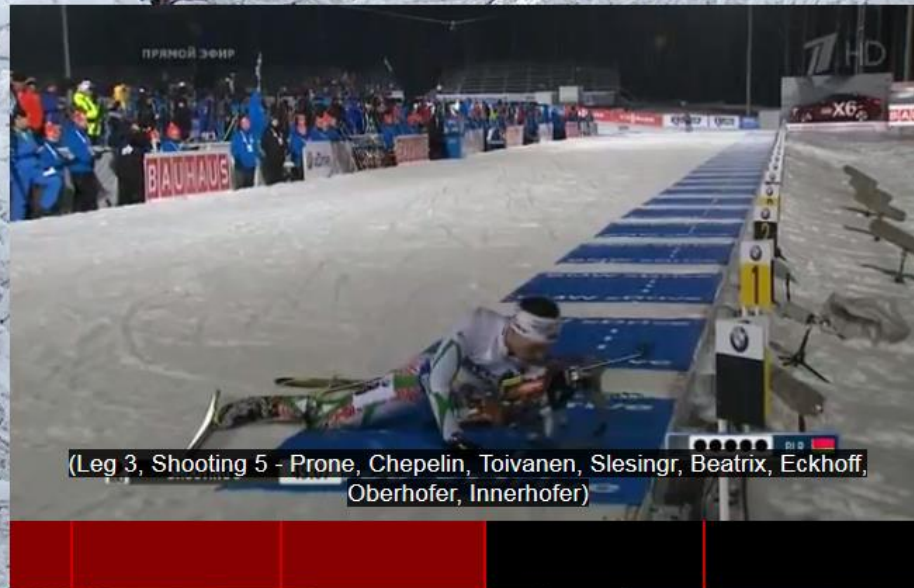
[IBU World Championships / 14-15 / Kontiolahti - FIN - Mixed 2x6+2x7.5 km Relay](#)

EBUSport - Semantic Data for Sport



EBUSport HOME QUERIES SPARQL LIVE CONTACT

Editorial Object: Kontiolathti 2015 - Mixed relay - edited



prone

Search

Data visualisation

Your imagination at work

Optimize your data workflow

Plot period

--select a season-- ▾

Men

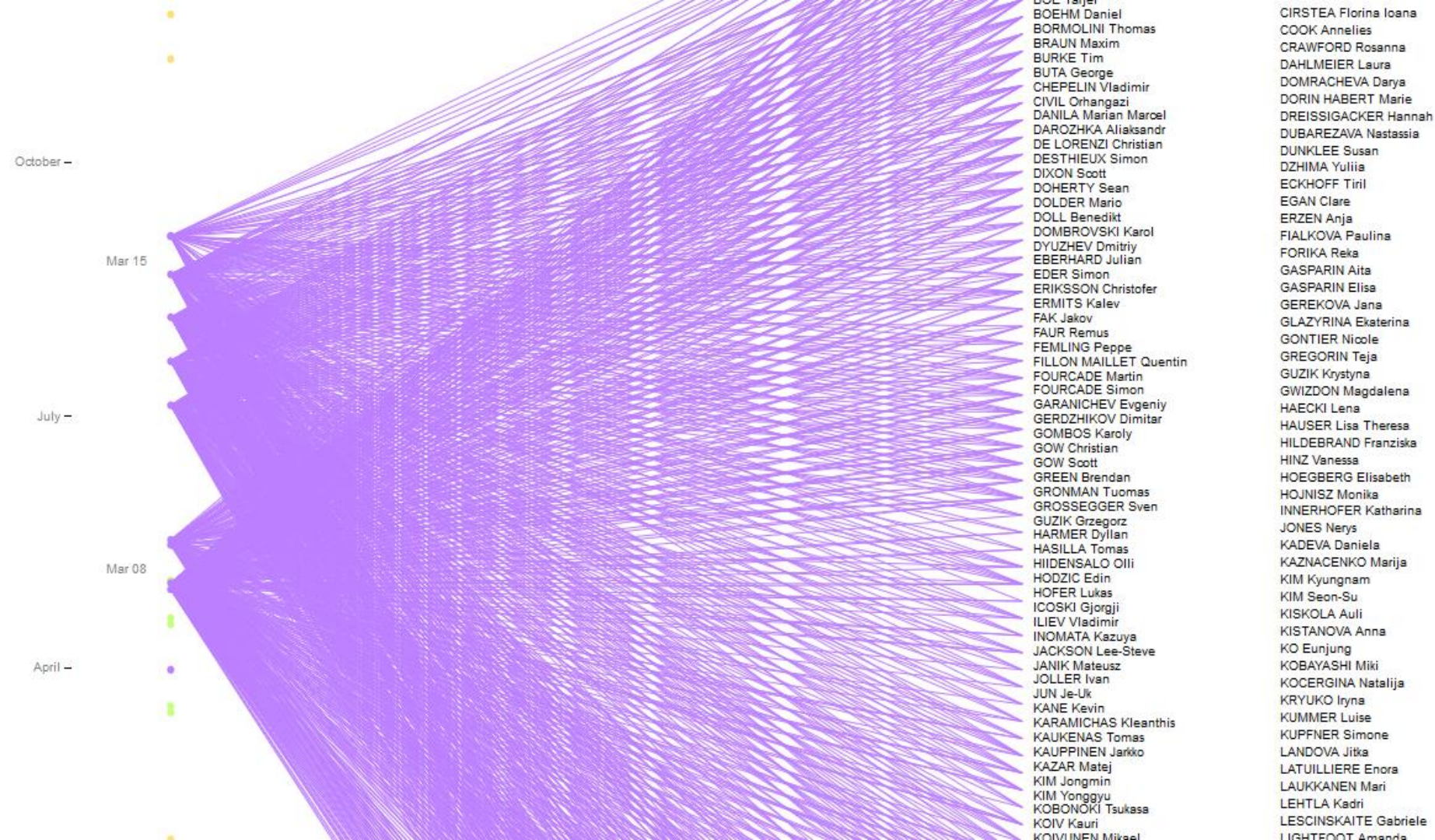
Women

Submit

2014-2015

IBU World Championships / 14-15 - Kontiolahti - FIN

Athlete / Event	Men 10 km Sprint	Men 12.5 km Pursuit	Men 15 km Mass Start	Men 20 km Individual	Men 4x7.5 km Relay	Mixed 2x6+2x7.5 km Relay
ABASHEU Dzmitry	70			97	10	
ALMOUKOV Alexei	92			43		
ANEV Krasimir	52	49		19	16	
ANGELIS Apostolos	98			116		
ARMGREN Ted	72			37	18	
ARWIDSON Tobias				68	18	
BAILEY Lowell	17	36	13	24	14	
BAUER Klemen	47	39		23	8	
BEATRIX Jean Guillaume	39	41		57	3	
BJOERNDALEN Ole Einar	19	5	4	6	2	
BOE Johannes Thingnes	1	31	6	7	2	
BOE Tarjei	3	3	3	25	2	
BOEHM Daniel				11	1	
BORMOLINI Thomas	90			83	12	
BRAUN Maxim	86			53	17	
BURKE Tim	15	20	14	31	14	
BUTA George	61			55	22	





Kontiolahhti 2015
- Men 12.5km
Pursuit - 1 HD

< hasRelatedFootage
BusinessObjectRelatedEvent

IBU World
Championships /
14-15 /...

< hasParticipationHistory

FOURCADE
Martin

< isResultAthlete
hasCompetitionEventResult >

< isResultCompetitionEvent
hasResult >

IBU World
Championships -
rank: 7 -...

< isResultCompetitionEvent
hasResult >

IBU World
Championships -
rank: 59 -...

< hasParticipationHistory

ZLATEV Ivan

< isResultAthlete
CompetitionEventResult >

type

Athlete



http://en.wikipedia.org/wiki/Martin_Fourcade

dateOfBirth

14/09/1988

gender

Male

placeOfBirth

Ceret - FRA

agentCountryOfResidence

FRA

agentInstagram

@martinfkde

agentNationality

FRA

agentPlaceOfResidence

<http://localhost:8089/openrdf-sesame/repositories/ebusport>

ZLATEV Ivan

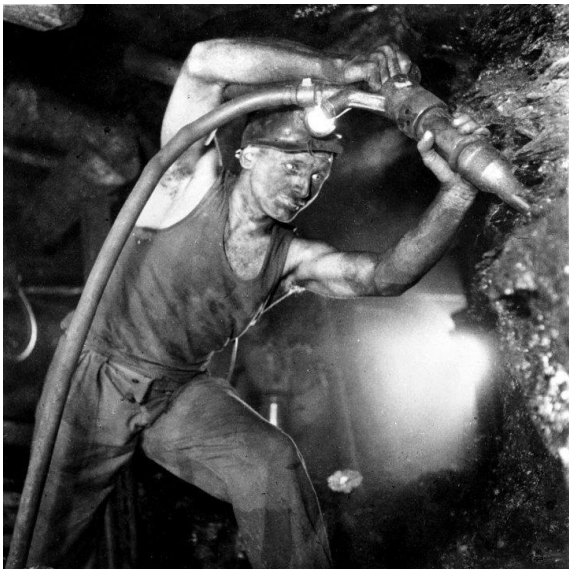
http://www.biathlonworld.com/athlete#BT_MBTBUL10108199001

Conclusion

SEMANTIC TECHNOLOGIES TAKE YOU TO THE NEXT LEVEL

- Treat yourself: link resources to information and vice-versa
- Data is a strategic asset – manage it as it deserves to be
 - ❖ Improve your metadata workflow (sport or else)
 - ❖ Use it when available, don't ignore or discard it, feed back and optimize
 - ❖ Weigh the cost of using alternative solutions like data extraction
 - ❖ Negotiate appropriate usage rights for data
 - ❖ Give (live) data the appropriate level of protection
 - ❖ Volumes might soon look like big data
- Would it make sense to develop an EBU recommendation on data workflows?

STOP MINING!



GO SURFING...



CONTACT INFORMATION

<mailto:evain@ebu.ch>