### Employer Case Study Vehicle Related Risk Management



June 2016

## What we do

MOLECULE/INDICATION	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	BLA/ NDA/MAA	COMMERCIALIZATION
ALDURAZYME® FOR MPS I						
NAGLAZYME® FOR MPS VI						
KUVAN® FOR PKU						
FIRDAPSE® FOR LEMS (EU)						
VIMIZIM® FOR MORQUIO A SYNDROME / MPS IVA						
DRISAPERSEN FOR DUCHENNE MUSCULAR DYSTROPHY (EXON 51)						
PEGVALIASE (PEG-PAL)						
REVEGLUCOSIDASE ALFA (BMN 701)-GILT GAA FOR POMPE DISEASE						
BMN 111 ANALOG OF CNP FOR ACHONDROPLASIA						
BMN 044 FOR DUCHENNE MUSCULAR DYSTROPH' (EXON 44)	r					
BMN 045 FOR DUCHENNE MUSCULAR DYSTROPHY (EXON 45)	r					
BMN 053 FOR DUCHENNE MUSCULAR DYSTROPH' (EXON 53)	r					
CERLIPONASE ALFA (BMN 190)-TPP1 FOR CLN2 DISEASE						
BMN 270 AAV-FACTOR VIII VECTOR FOR HEMOPHILIA A	2					
BMN 250 GILT rhNAGLU FOR SANFILIPPO SYNDROME / MPS IIIB						

## Site Safety

BOMARIN

- 370 people up to 550 daily
- 350 active risk assessments
- 7 distinct cross functional EHS teams
- EHS team for compliance
- 0 LTA's since 2010 site takeover
- Close on 1,500,000 LTA hours (touch wood)





•No traffic fleet yet; biggest current risk – vehicle related risk management

### **Current Biomarin Site Overview**

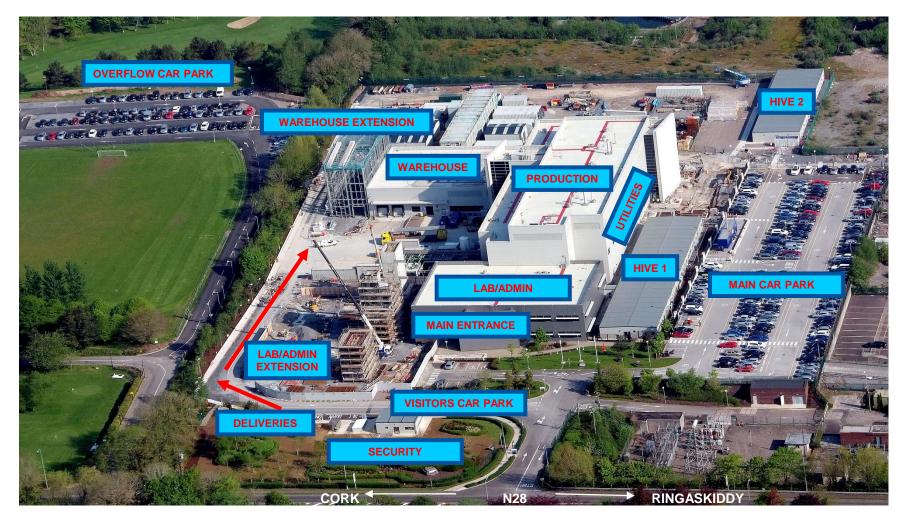


Photo taken May 13th 2016

## Creating a Culture of vehicle related safety

Road Safety Messages frequently communicated across the site

#### BIOMARIN

#### Its Freezing.....

- > Please exercise extreme caution when driving on icy roads!!
- The carpark can also be treacherous in the mornings so extra care is needed.
- Remember the RSA safety tips for motorists driving in snow and ice.
  - > Get a grip. Check your tyres
  - > Make sure you can see. Clear your windows and mirrors before you set out
  - Check & use your lights. Use your dipped headlights so that others will see you. Make sure your headlights and taillights are all in working order, replace broken bulbs. Make sure lights are clear of snow.
  - Gently does it. Manoeuvre gently, slow down and leave extra distance between you and the vehicle in front. Too much steering is bad and avoid harsh braking and acceleration.
  - > Watch out for "black ice." If the road looks polished or glossy it could be, "black ice"
  - > Get informed. Listen to local weather and traffic reports.
  - > 10. Stay at home. The best thing to do in extremely bad weather is to stay off the road.

> Also please slow down in the carpark, the speed limit is 10kph and should not be exceeded.

### From January 2016







## Creating a Culture of vehicle related safety

Weather alerts circulated to all personnel following Met Eireann Weather Warnings

Road Safety Promotion events:

 The Road Safety Authority were invited onsite in July 2015 to promote road safety.



RSA rollover simulator

•Noel Lacey a Health and Safety Authority inspector with responsibility for work related vehicle safety visited the site in August 2015.

## **Cycling Promotion**

- Cyc-lok is a safe secure locker storage system for bikes and personal items (helmet/wet gear/bag)
- Cycling safety workshops
- All items are kept safe, dry and out of sight
- Access to the lockers is by means of a coded keypad/card at the end of the unit.
- 12 lockers have a footprint of one car park space





## **Car Pooling**

- Car Pooling is promoted onsite by the Green Team
- Designated car parking spaces for car pooling close to main building entrance.
- Emergency taxi fund provided to cover the cost of a taxi where person has to leave the site unexpectedly when carpooling.



Use of public transport is also encouraged "public transport ticket scheme"
BIOMARIN

### New internal road signage and road markings (to inform drivers and assist visitors)

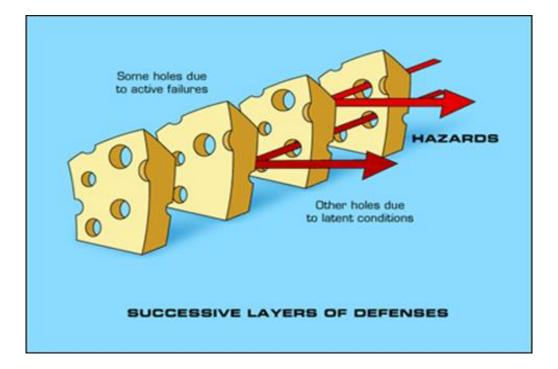




Malachy Walsh and Partners Engineering and Environmental Consultants Cork | Tralee | Limerick | London



### Transport Safety Strategy



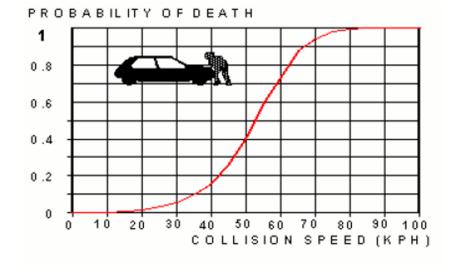
## **Control Measures Adopted**

Increased Segregation of vehicle and pedestrian routes.

•Stippled paving for those with poor sight

PRAISE Work-Related Road Safety

 15kph is the maximum speed limit! In some areas speed limit is reduced to 10kph – why ????



Car speed	% fatally injured pedestrians
32 km/h	5%
48 km/h	45%
64 km/h	85%

## **Control Measures Adopted**

•Forklift instructor onsite with internal fork truck induction exams for new drivers

•Forklift interlocks fitted to seat belts

- •Free tyre safety checks
- •Reverse Parking mandatory in Carparks

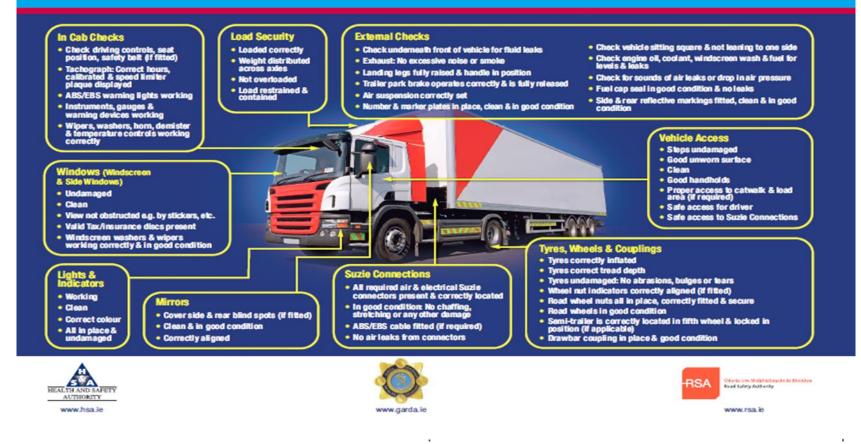


 Driving instructor employed to provide lessons to employees who are nervous about reverse parking

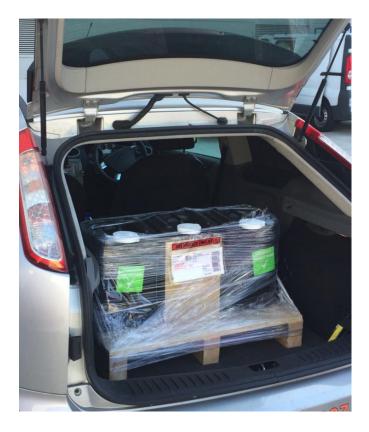


### **Promotional Material**

### **HGV Driver Walkaround Checks**



### **Control Measures Adopted**



Delivery checks and checks before waste loads leave site – physical tick box for load security

Vendor follow through for anomalies



## **Control Measures Employed**

#### **Construction related Traffic & congestion in West Yard**

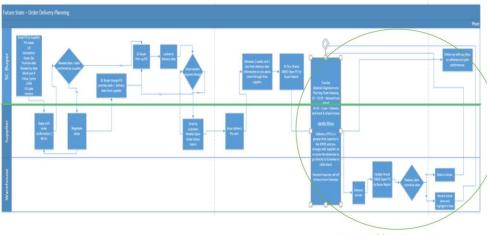
- Traffic flow on site is controlled by security personnel
- Security must have prior notification of all deliveries to site
- Access to West Yard is controlled by barrier
- On arrival to site all vehicles must sign in with security
- Maximum of 2-3 vehicles allowed in West Yard at any time this is controlled by security
- Full time traffic coordinator employed to control traffic flow in West Yard for Duration of construction project. – crucial aspect (large fiscal commitment – but worth it).
- Daily co-ordination notifications of all loads

### Challenges – deliveries to schedule

02-May		Actual	0	03-May		04-May		Actual	05-May		Actual	06-May		Actual
allets	Boxes		Pallets	Boxes		Pallets	Boxes		Pallets	Boxes		Pallets	Boxes	
)	0	0	12	0	12	4	0	0	0	0		0	1	2
)	0	0	0	0	4	0	0		0	0		0	0	
)	0	0	0	0	4	0	0		0	0	1	0	0	
)	0	0	17	0	5	0	0	17	0	0	4	0	0	
)	0	0	0	0		0	0		0	0		0	0	
)	0	0	0	0	6	0	0	4	0	0	9	9	0	0
)	0	0	0	0	-	0	0		0	0		0	0	
)	0	0	0	0		0	0		0	0		0	0	
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)	0	0	0	0		0	0		0	0		0	0	
)	0	0	0	0		0	0		0	0		0	0	
)	0	0	0	0		0	0		0	0		0	0	
)	2	0	0	0		0	0		0	0	3	0	0	
2		0	29	0	43	0	0	21	0	0	17	9	1	2



#### Future State



Area of key improves



- ✓ No accidents thus far
- ✓ Staff morale
- Increased safety
- ✓ Efficiency in process
- ✓ Less stress for all those involved

