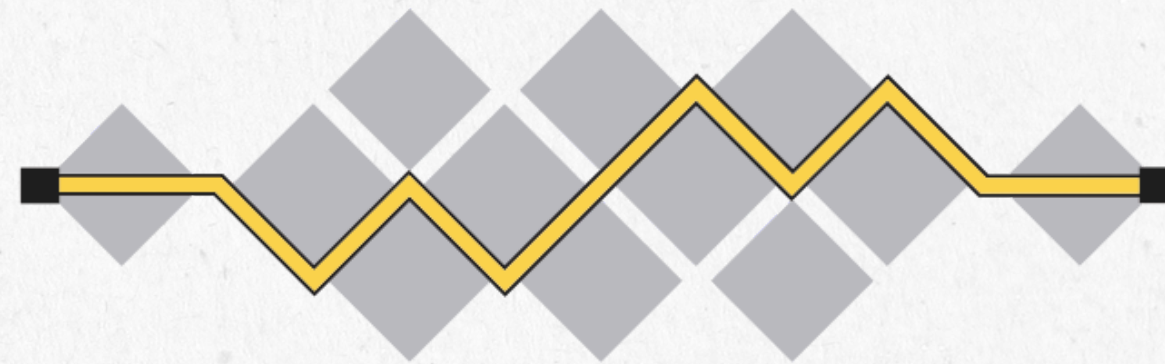


# DETERMINISTIC NETWORKING TEAM

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PREDICT 6G



I E T F<sup>®</sup>



# CHALLENGE 1: CONTROLLER PLANE API AND INTELLIGENCE

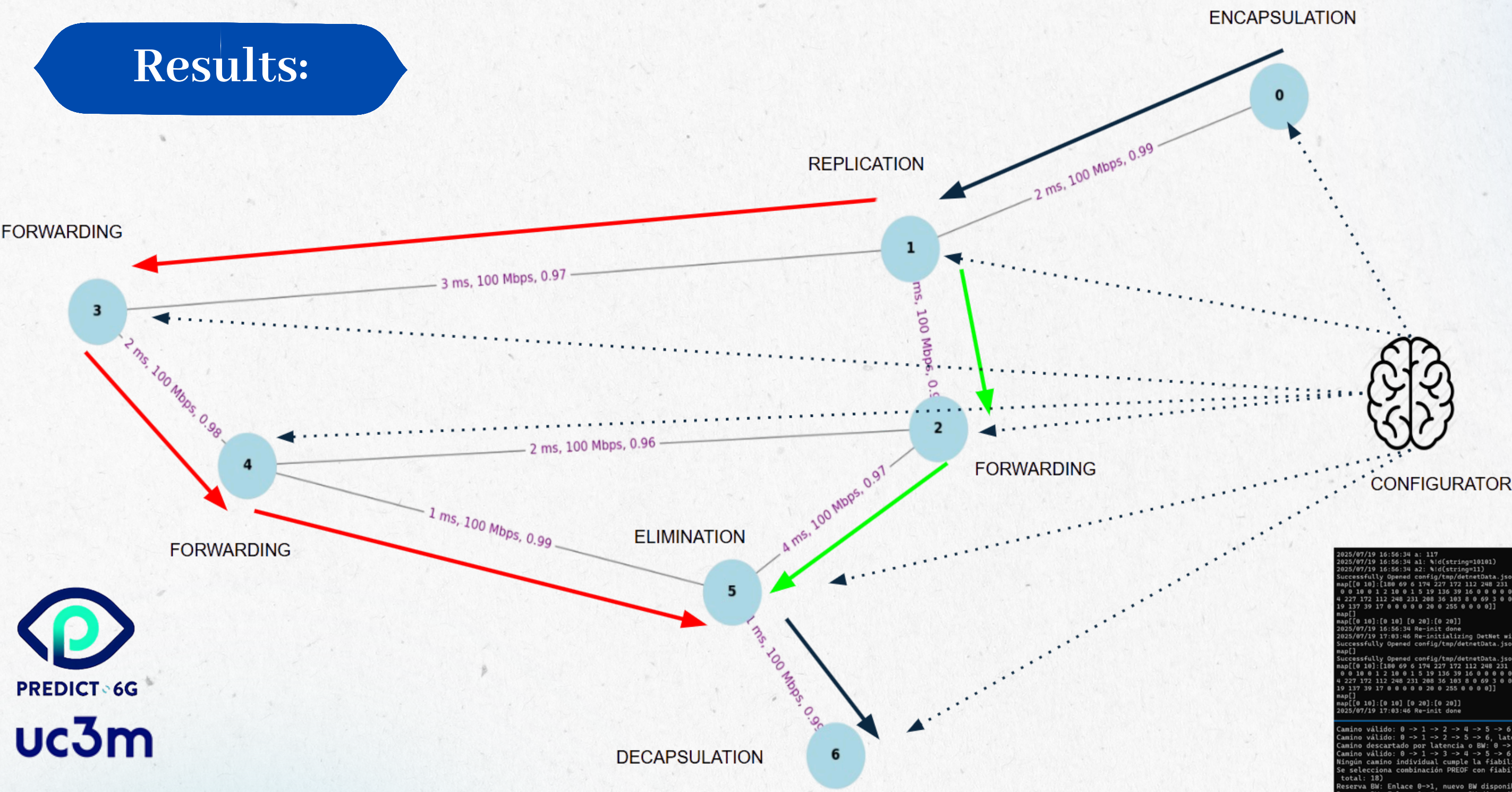
Challenge:

REST API for DetNet Intelligent on-the-fly configuration

Results:

TOTALLY  
PROVING THE  
DEPLOYMENT HERE.

SOURCES: TRUST ME



```
2025/07/19 16:56:34 a: 117
2025/07/19 16:56:34 a1: %d(string=10101)
2025/07/19 16:56:34 a2: %d(string=11)
Successfully Opened config/tmp/detnetData.json
map[0 10]:[188 69 6 174 227 172 112 248 231 208 36 103 8 0 69 0 0 0 0 64 0 64 17
0 0 10 0 1 2 10 0 1 5 19 136 39 16 0 0 0 0 10 0 255 0 0 0 0] [0 20]:[188 69 6 17
4 227 172 112 248 231 208 36 103 8 0 69 3 0 0 0 0 64 0 64 17 0 0 10 0 1 5
19 137 39 17 0 0 0 0 0 20 0 255 0 0 0 0]
map[]
2025/07/19 16:57:27 a: 117
2025/07/19 16:57:27 a1: %d(string=10101)
2025/07/19 16:57:27 a2: %d(string=11)
2025/07/19 17:03:46 Re-initializing DetNet with new configs..
Successfully Opened config/tmp/detnetData.json
map[0 10]:[188 69 6 174 227 172 112 248 231 208 36 103 8 0 69 0 0 0 0 64 0 64 17
0 0 10 0 1 2 10 0 1 5 19 136 39 16 0 0 0 0 10 0 255 0 0 0 0] [0 20]:[188 69 6 17
4 227 172 112 248 231 208 36 103 8 0 69 3 0 0 0 0 64 0 64 17 0 0 10 0 1 5
19 137 39 17 0 0 0 0 0 20 0 255 0 0 0 0]
map[]
2025/07/19 16:57:27 a: 117
2025/07/19 16:57:27 a1: %d(string=10101)
2025/07/19 16:57:27 a2: %d(string=11)
2025/07/19 16:57:27 a3: %d(string=1011)
2025/07/19 16:57:27 a4: %d(string=0)
2025/07/19 16:57:27 DETNET? [188 69 6 174 227 172 112 248 231 208 36 103 8 0]
map[]
2025/07/19 16:57:27 a: 117
2025/07/19 16:57:27 a1: %d(string=10101)
2025/07/19 16:57:27 a2: %d(string=0)
2025/07/19 16:57:27 a3: %d(string=1011)
2025/07/19 16:57:27 a4: %d(string=0)
Successfully Opened config/tmp/detnetData.json
map[0 10]:[188 69 6 174 227 172 112 248 231 208 36 103 8 0 69 0 0 0 0 64 0 64 17
0 0 10 0 1 2 10 0 1 5 19 136 39 16 0 0 0 0 10 0 255 0 0 0 0] [0 20]:[188 69 6 17
4 227 172 112 248 231 208 36 103 8 0 69 3 0 0 0 0 64 0 64 17 0 0 10 0 1 5
19 137 39 17 0 0 0 0 0 20 0 255 0 0 0 0]
map[]
2025/07/19 16:57:27 a: 117
2025/07/19 16:57:27 a1: %d(string=10101)
2025/07/19 16:57:27 a2: %d(string=0)
2025/07/19 16:57:27 a3: %d(string=1011)
2025/07/19 16:57:27 a4: %d(string=0)
Successfully Opened config/tmp/detnetData.json
map[0 10]:[188 69 6 174 227 172 112 248 231 208 36 103 8 0 69 0 0 0 0 64 0 64 17
0 0 10 0 1 2 10 0 1 5 19 136 39 16 0 0 0 0 10 0 255 0 0 0 0] [0 20]:[188 69 6 17
4 227 172 112 248 231 208 36 103 8 0 69 3 0 0 0 0 64 0 64 17 0 0 10 0 1 5
19 137 39 17 0 0 0 0 0 20 0 255 0 0 0 0]
map[]
2025/07/19 17:03:46 Re-init done
2025/07/19 17:03:46 Re-init done

Camino vlido: 0 -> 1 -> 2 -> 4 -> 5 -> 6, latencia=9, fiabilidad=0.91286
Camino vlido: 0 -> 1 -> 2 -> 5 -> 6, latencia=10, fiabilidad=0.93168
Camino descartado por latencia o BW: 0 -> 1 -> 3 -> 4 -> 2 -> 5 -> 6
Camino vlido: 0 -> 1 -> 3 -> 4 -> 5 -> 6, latencia=9, fiabilidad=0.92237
Nngun camino individual cumple la fiabilidad requerida.
Se selecciona combinacin PREOF con fiabilidad conjunta suficiente (Latencia
total: 18)
Reserva BW: Enlace 0->1, nuevo BW disponible: 50
Reserva BW: Enlace 2->4, nuevo BW disponible: 50
Reserva BW: Enlace 1->2, nuevo BW disponible: 50
Reserva BW: Enlace 3->4, nuevo BW disponible: 50
Reserva BW: Enlace 4->5, nuevo BW disponible: 50
Reserva BW: Enlace 5->6, nuevo BW disponible: 50
Reserva BW: Enlace 1->3, nuevo BW disponible: 50
Tiempo de ejecucin del algoritmo: 0.002488 segundos
Camino asignado: 0 -> 1 -> 2 -> 4 -> 5 -> 6 || 0 -> 1 -> 3 -> 4 -> 5 -> 6
Watchdog detecta nueva lnea: 1,0 -> 1 -> 2 -> 4 -> 5 -> 6 || 0 -> 1 -> 3 ->
4 -> 5 -> 6,50,False
[INFO] Configuracin enviada correctamente al nodo 0.
[INFO] Configuracin enviada correctamente al nodo 1.
```



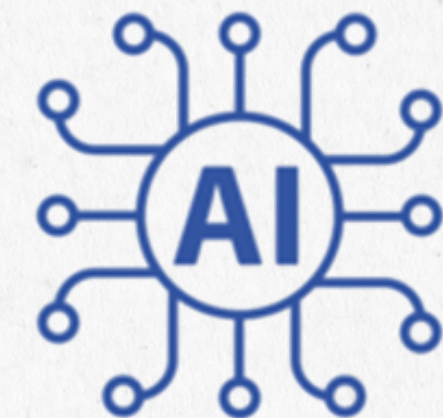
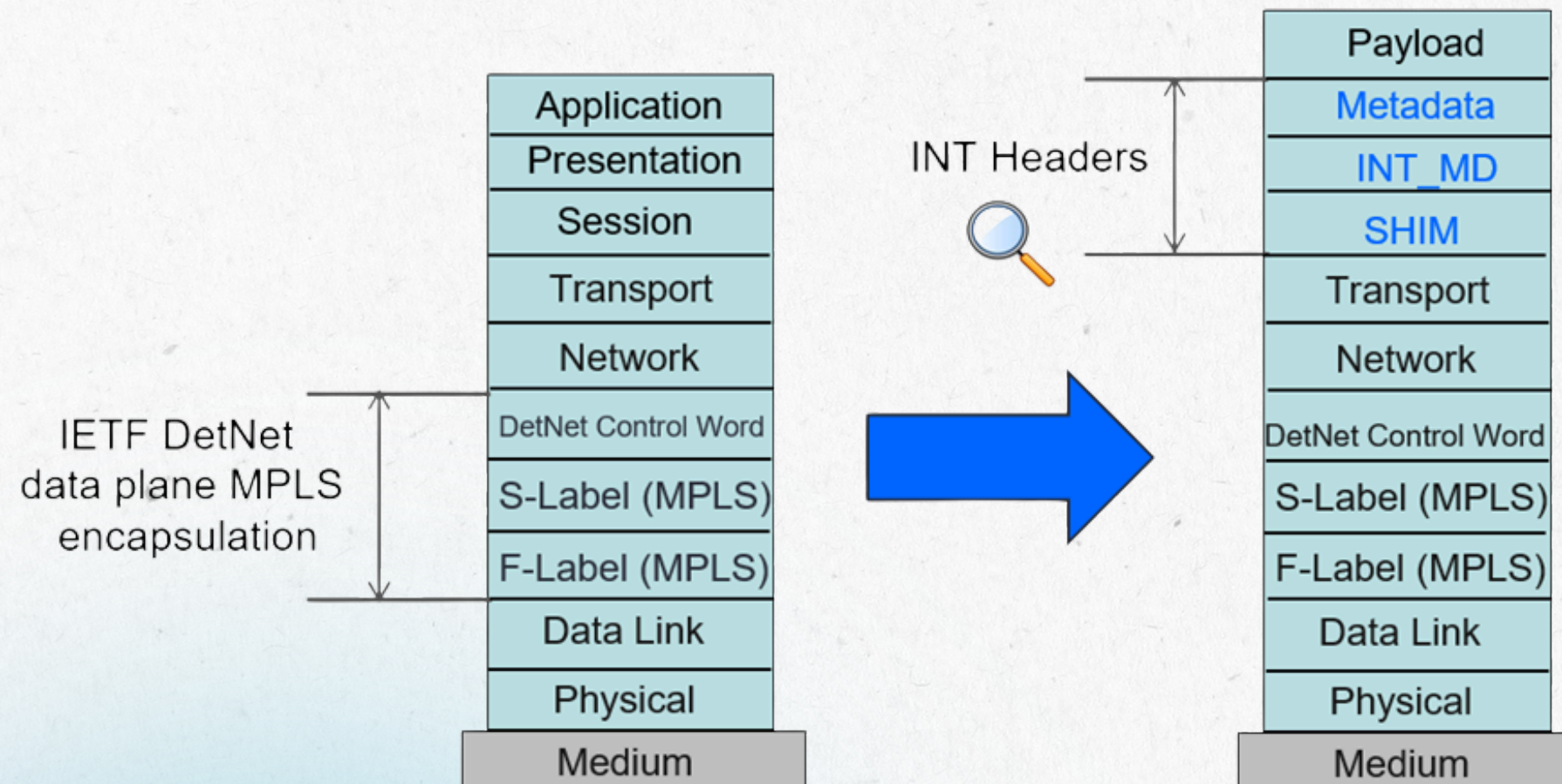
# CHALLENGE 2: IN-BAND TELEMETRY (INT) FOR DETNET

## Challenge:

Our challenge has been the development of a Wireshark dissector for DetNet packets operating with In-band Telemetry (INT).

## Results:

Although the development is not yet complete, we have successfully created a solid foundational DetNet-INT dissector with the help of an AI agent. This represents a significant step forward and demonstrates the potential for leveraging AI to accelerate and streamline the creation of Wireshark dissectors.





# LINKS AND PARTICIPANTS

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## TEAM



GitHub  
Us!



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