# iVolution: product line extension

Jan Van Overbeke



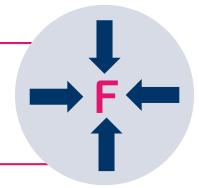
# The therapy: indication

Treatment of de novo or restenotic atherosclerotic lesions in peripheral arteries located under the aortic arch with a nominal diameter from 4.5 to 9.5 mm



# Key features

Use in exposed arteries – iliac, superficial femoral artery (SFA) and popliteal artery







# Stent technology

- Open cell design with short cell length to feature:
  - Outstanding flexibility
  - High adaptability to vessel
  - No flaking (no fish scaling effect)
  - Anti-kinking



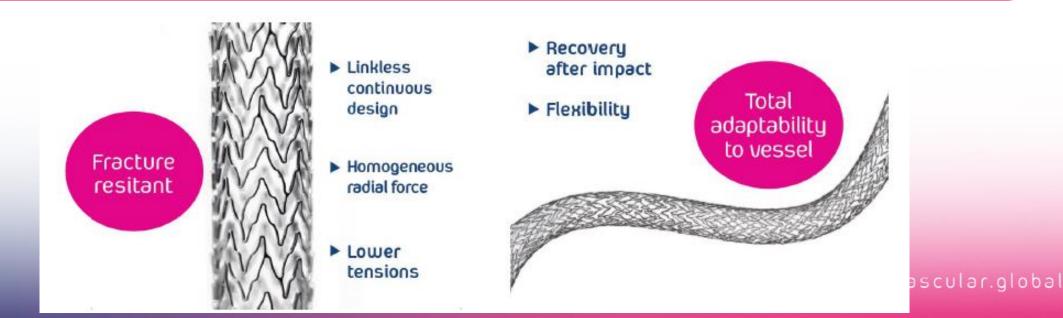
- ✓ Closed cell in both ends for maximum control of stent release (no popping)
- ✓ 4 radiopaque markers at each end of the stent





# Stent technology

✓ Continuous design. Links are extensions of struts for more homogeneous distribution of stress and less risk of fracture ✓ High arterial wall coverage
 ✓ Perfect recovery after impact
 ✓ Best-in-class radial force





# Stent technology

Balance between adaptability and arterial support

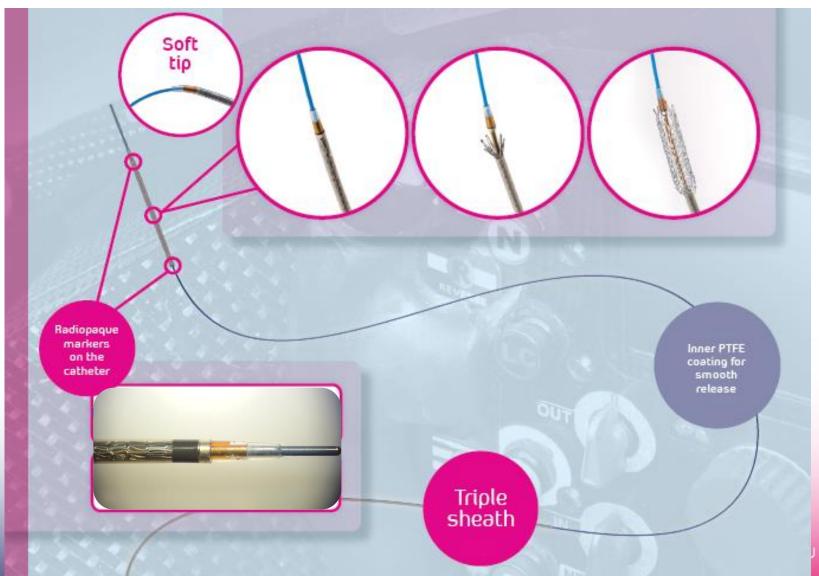
#### Flexibility







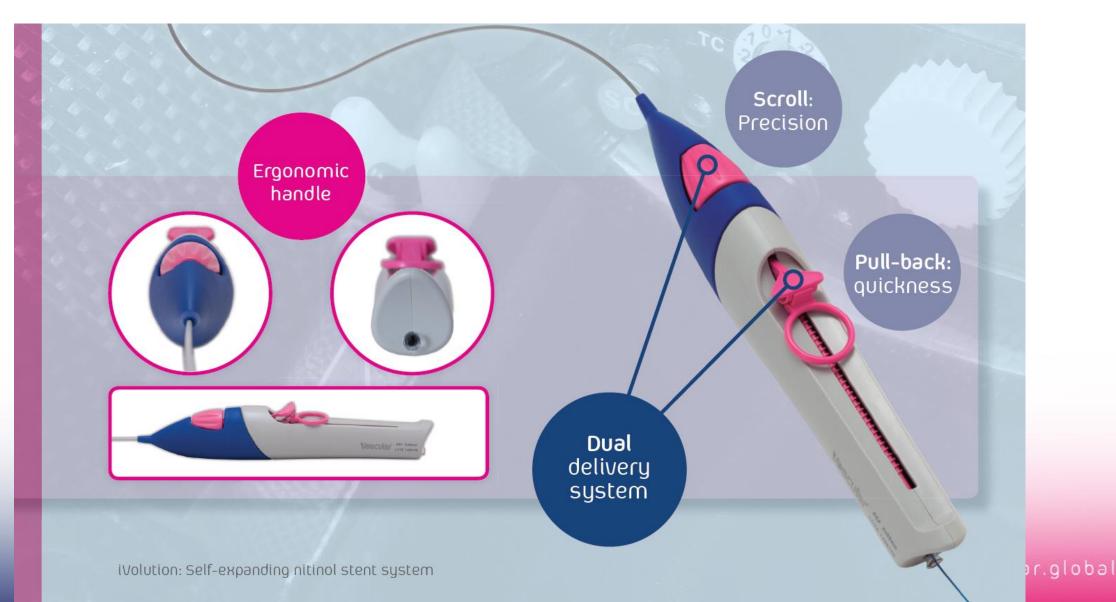
### Delivery system



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### Delivery system





## Delivery system

- Triple sheath design for a comfortable and safer delivery
  High visibility
  - 2 radiopaque markers on the catheter to limit the stent
  - 1 extra marker on the moving sheath for continuous visibility of the delivery

 PTFE- coated retrievable sheath for a smooth delivery
 Non-traumatic soft tip
 Fully compatible with 6F introducer for all stent sizes





# General features

- Nitinol stent
- Triple sheath catheter
- Catheter length: 80 and 140 cm
- Compatible with 6F introducers
- Compatible with 8F guiding catheters
- Compatible with 0.035" guidewires

- 4 RO markers in each end of the stent
- 2 RO markers in the catheter
- 2 handles sizes:
  - Small (L: 40 mm 100 mm)
  - Large (L: > 100 mm)

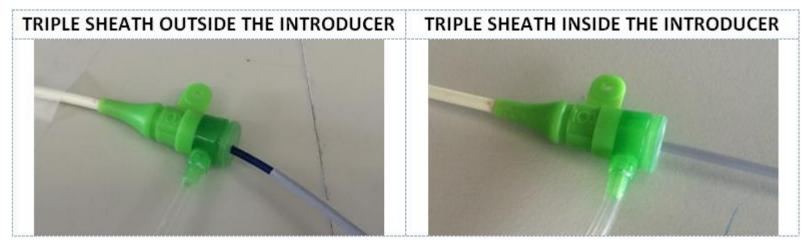
# Key to success: deployment tips & tricks

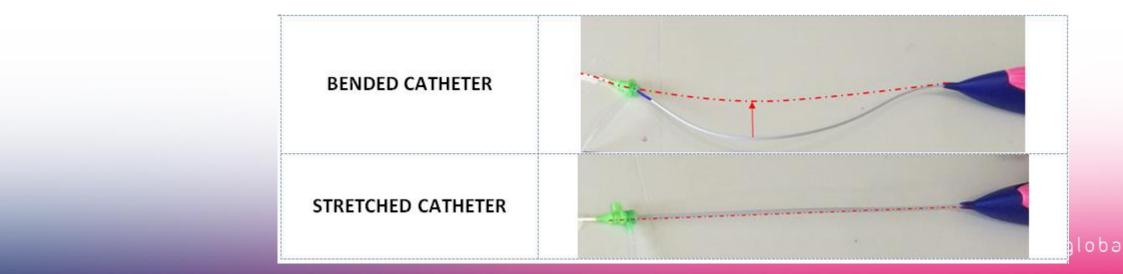
### Keep control while delivering

- Choose the correct length of the delivery device, according to the situation of the lesion
- 2. Introduce the triple sheath into the hemostasis valve of the introducer
- 3. Keep the system stretched (tensed)
- 4. Try not to move the handle while delivering

#### AVOID SHORTENING ON EXPANSION

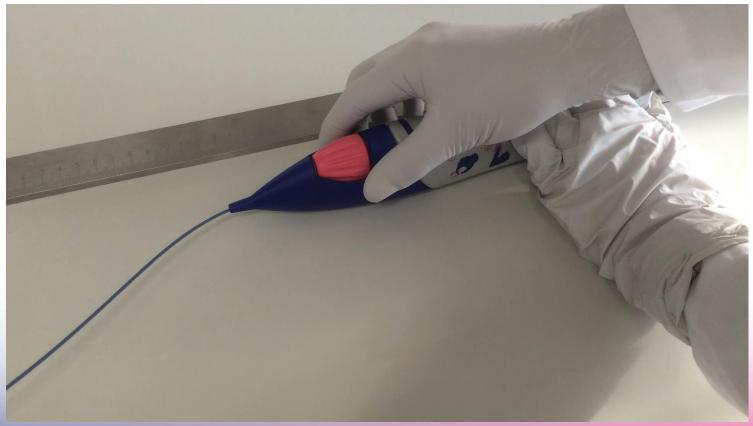
#### Evaluate the different ways for delivering de stent





#### **TEST DEMO**

#### • Triple sheath outside the introducer / system bended

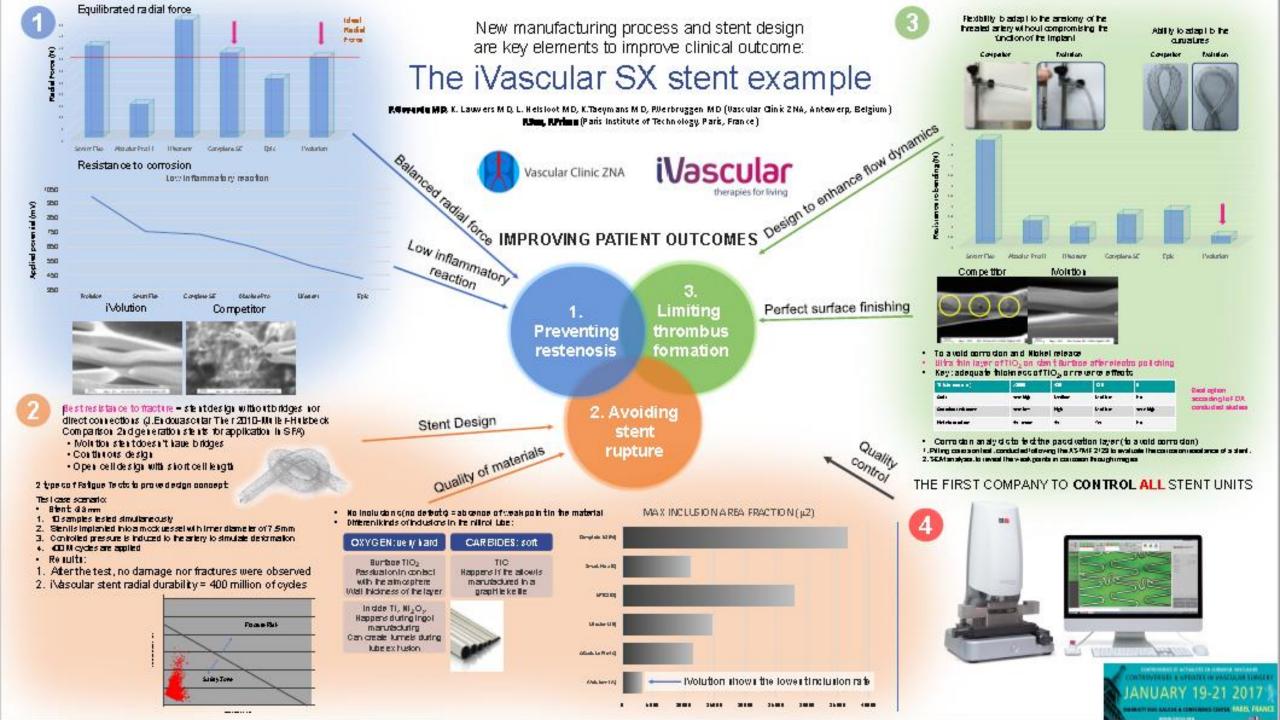


#### TEST DEMO

#### • Triple sheath inside the introducer / system straight







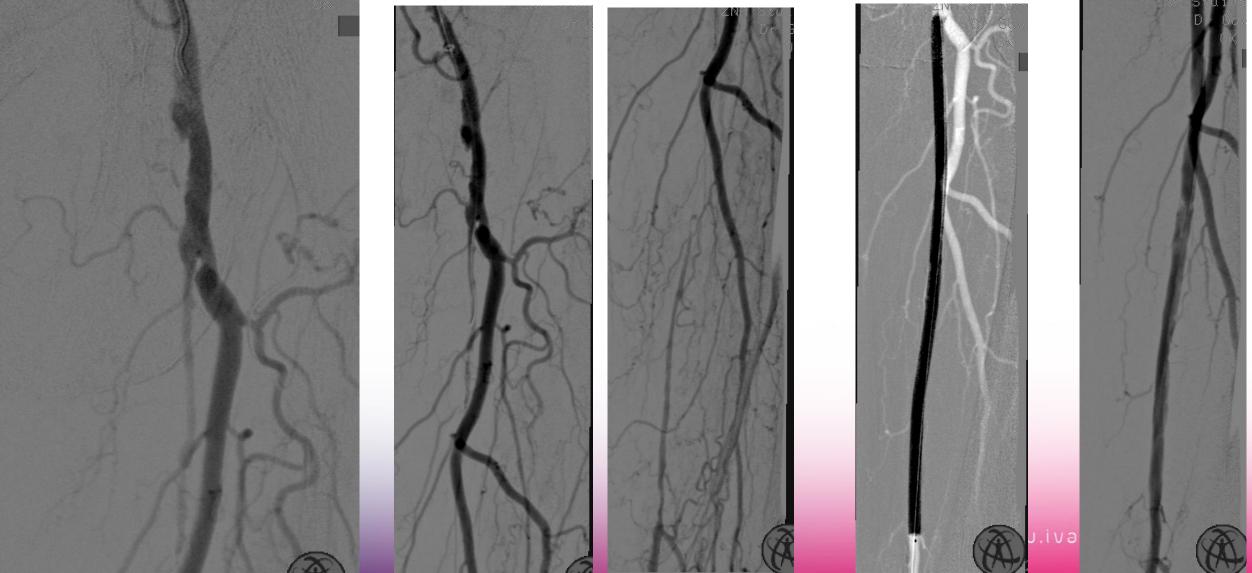
# iVolution 200mm

Feedback from the field

NITINOL SELF-EXPANDING STENT SYSTEM

#### iVascular

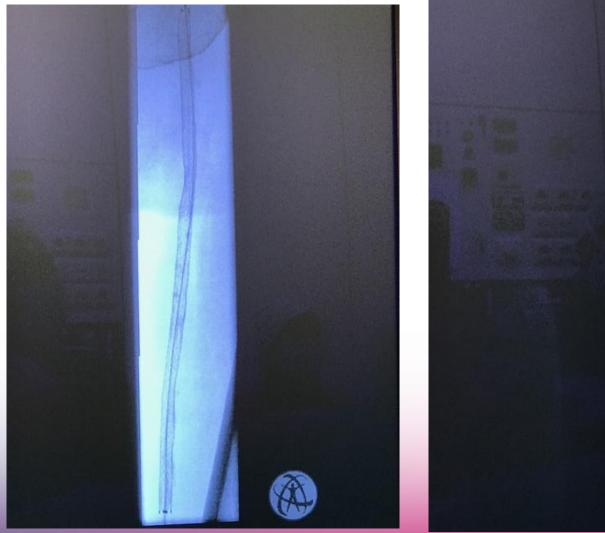
# Occlusion proximal & mid left SFA : Luminor & Ivolution 200mm



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# Occlusion proximal & mid left SFA : Luminor & Ivolution 200mm



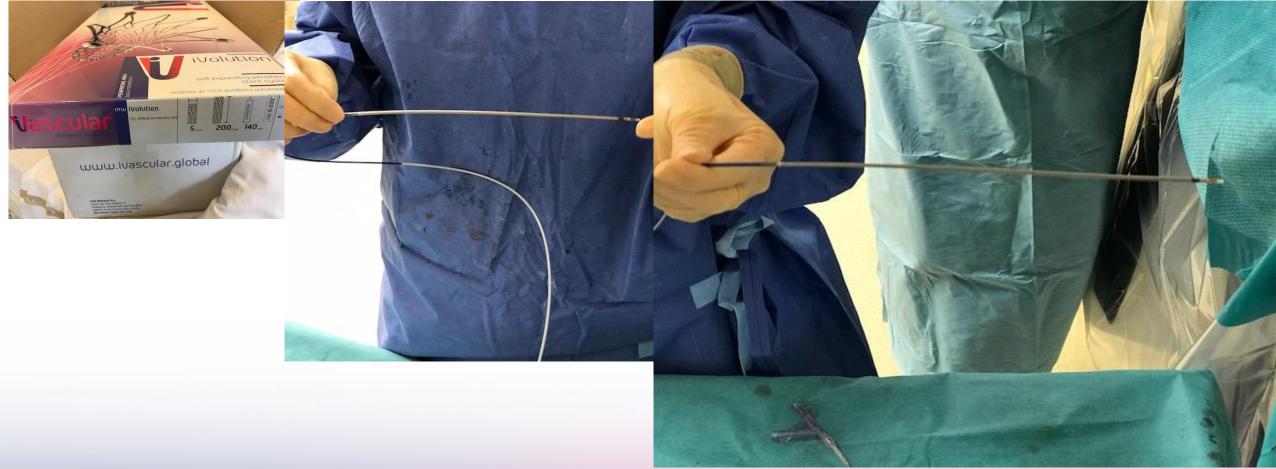




NITINOL SELF-EXPANDING STENT SYSTEM

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# Occlusion proximal & mid left SFA : Luminor & Ivolution 200mm



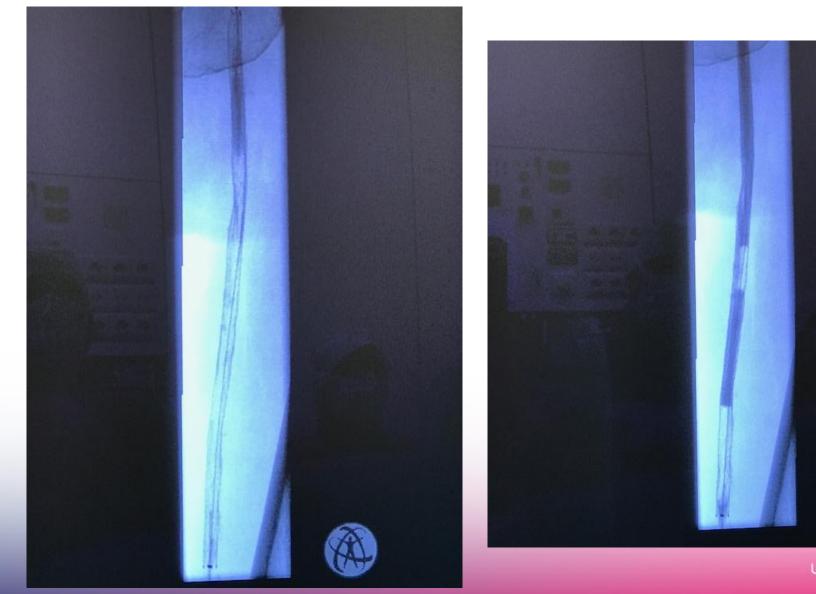
#### Occlusion proximal & mid left SFA : Luminor & Ivolution 200mm



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# Summary

		Flexibility	Resistance to bending	Artery straightening	Resistance to impact	Radial force	Global punctuation
iVascular	iVolution	6	6	7	7	7	33
TERUMO	Misago	7	7	7	1	3	25
Cordis, TRE OF THE SCHEME FAILURE COMPANY	Smart Flex	2	1	3	5	4	15
C Abbott	Absolute Pro	5	4	5	4	۱	19
BARD	Lifestent	3	5	5	6	2	21
A Medtronic	Complete	1	3	3	3	6	16
Scientific	Epic	4	2	1	2	5	14

# Competition

- Everflex (MDT):
- Life stent solo (Bard):
- Sinus superflex (Optimed):
- Supera (ABT):
- Misago stent (Terumo) :
- Epic (BSC) :

- 200mm (6&7mm diameter)
- 200mm (6&7mm diameter)
- 180mm (6&7 mm diameter)
  - 200mm (5&6mm diameter)
  - recalled from the market
    - 120mm max length

# Feedback Dr Goverde

The iVolution 200 mm :

"a very nice extension of the iVolution portfolio with a reliable delivery device that can guarantee you an very accurate placement without the risk of elongation"

"Together with the excellent characteristics of the existing iVolution stents makes it a "need to have on the shelf" "