

CE MARKING PROCESS & NOTIFIED BODIES

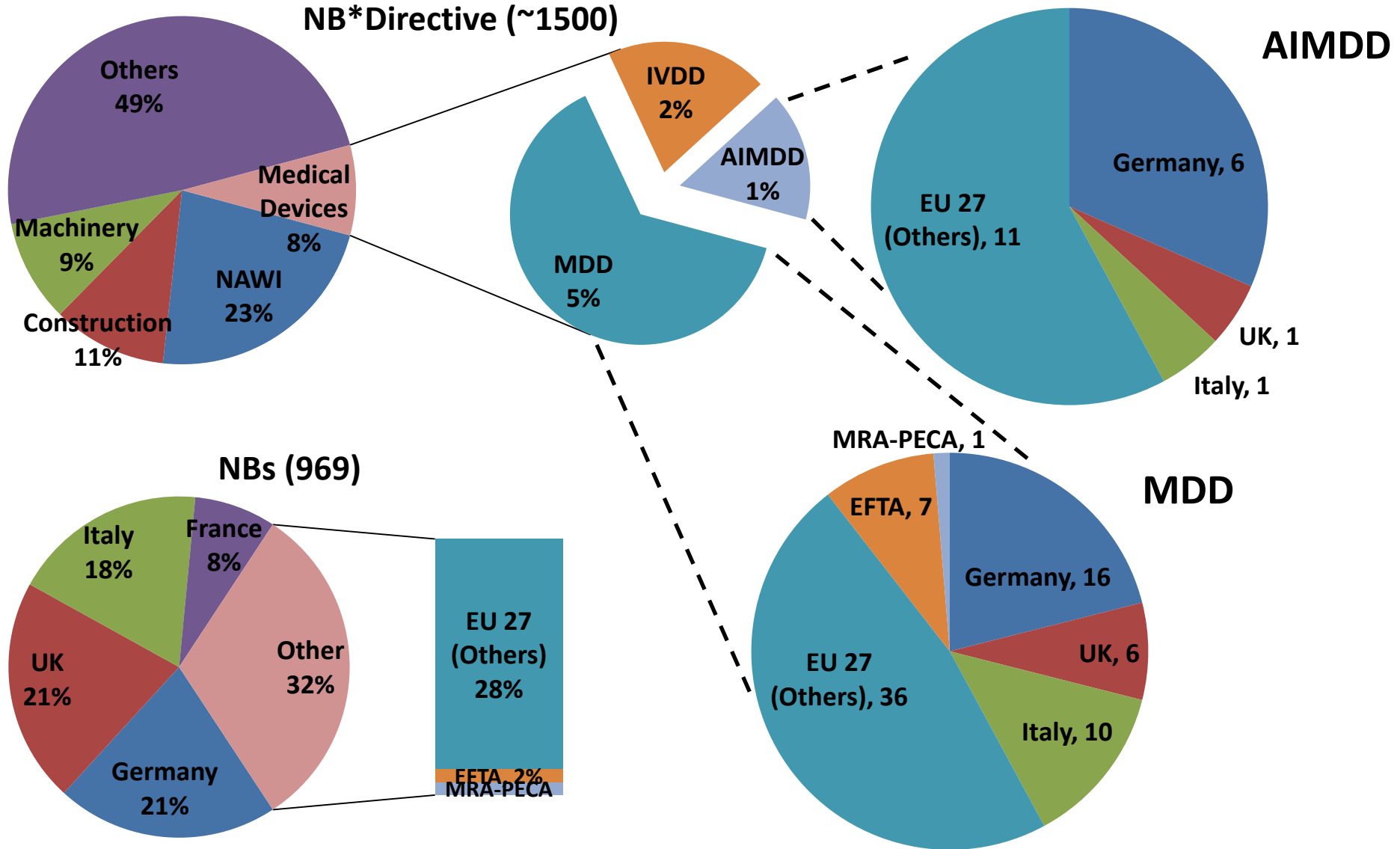
GLOBAL BIODESIGN

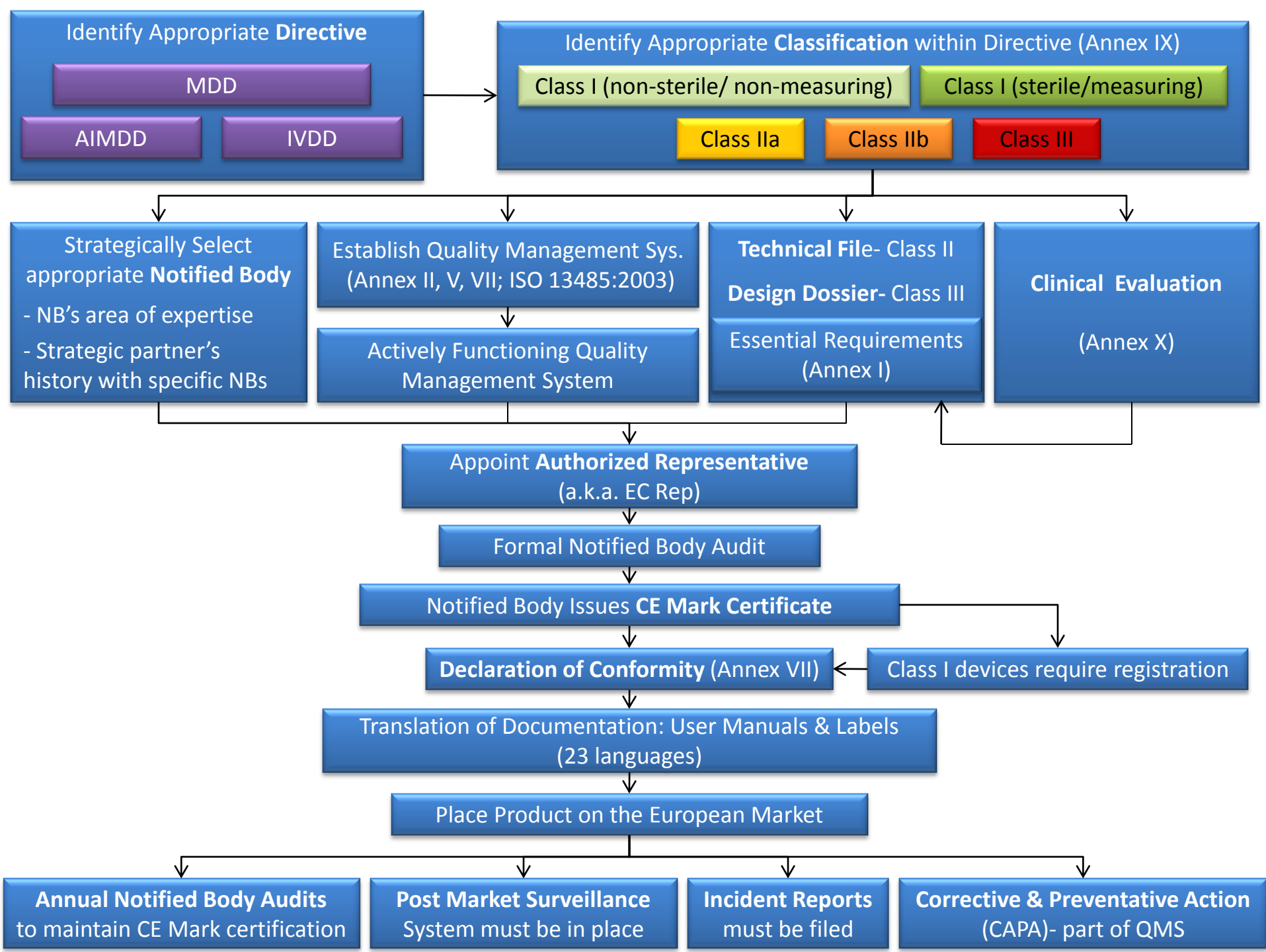
STANFORD UNIVERSITY

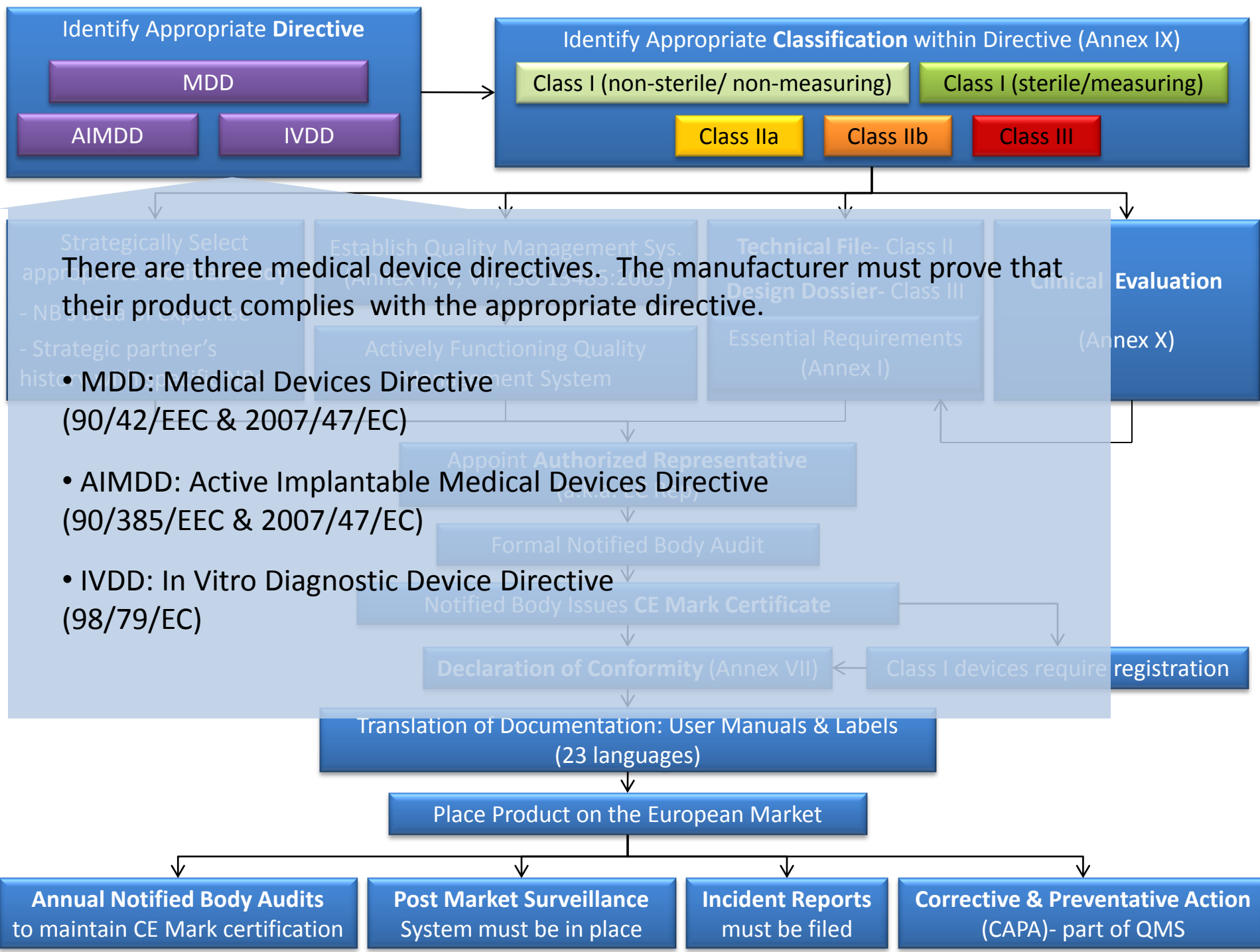
Ellis Garai
Ramin Miri

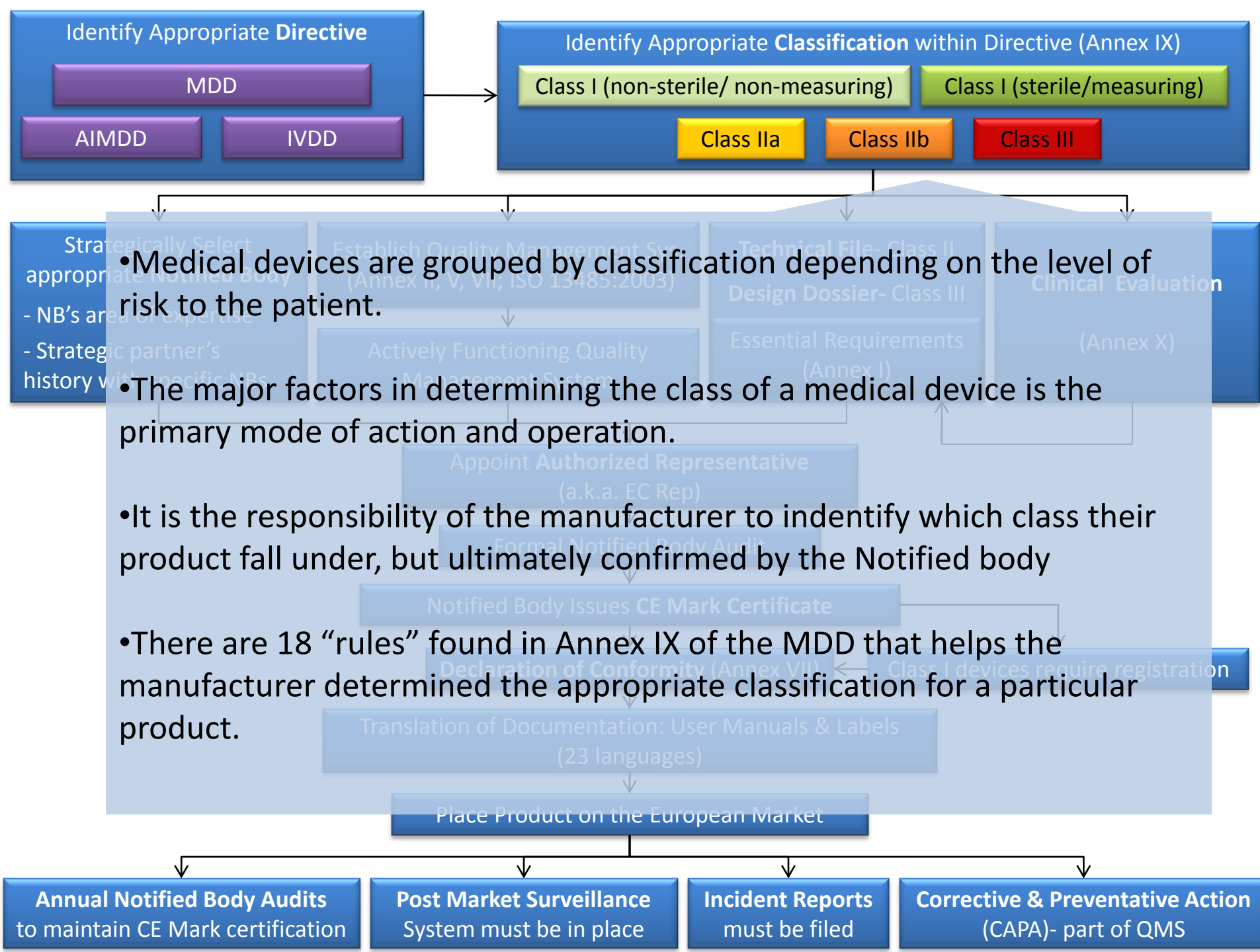
Spring 2011

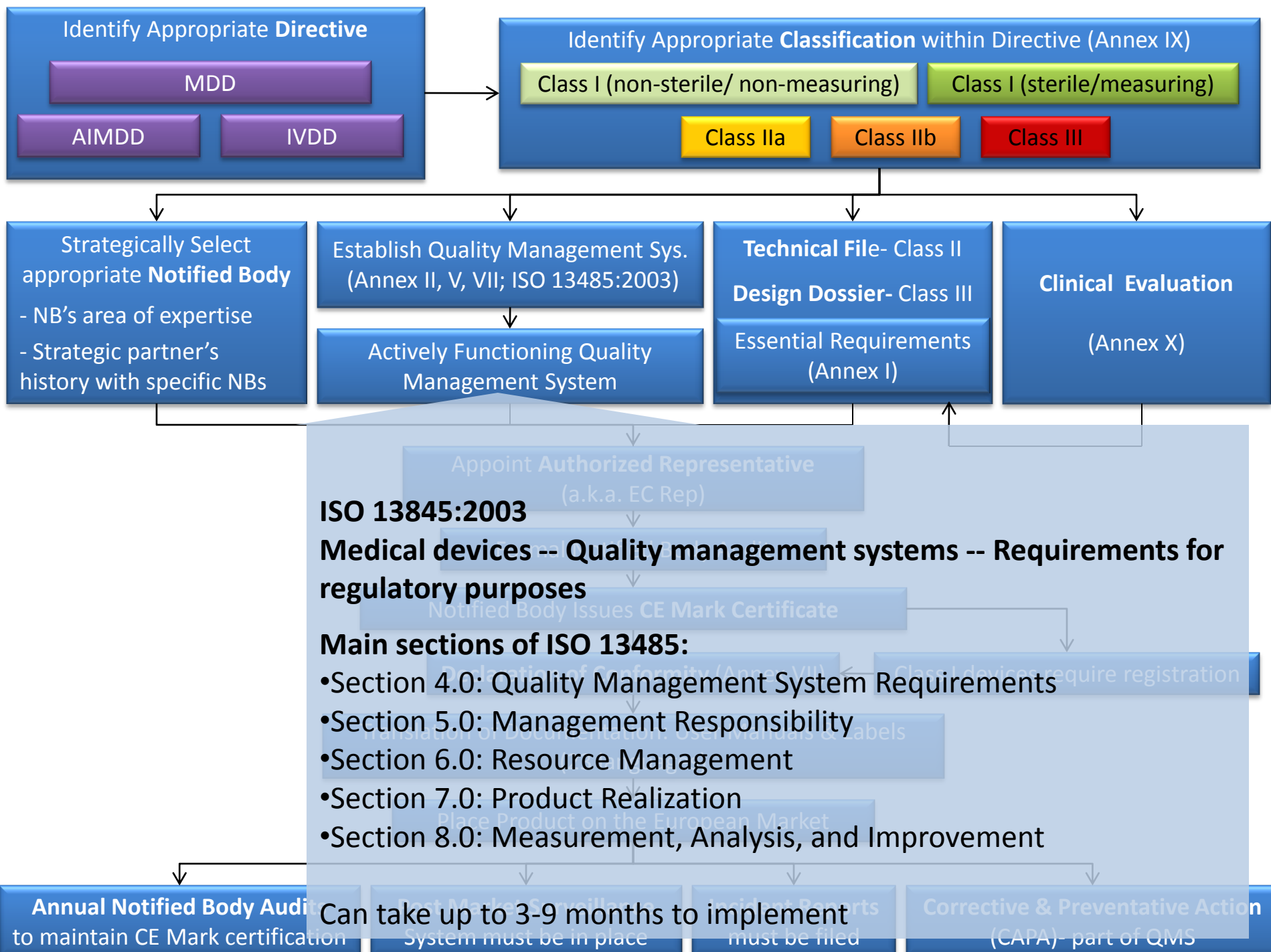
Notified Bodies Industrial and Geographical Distribution

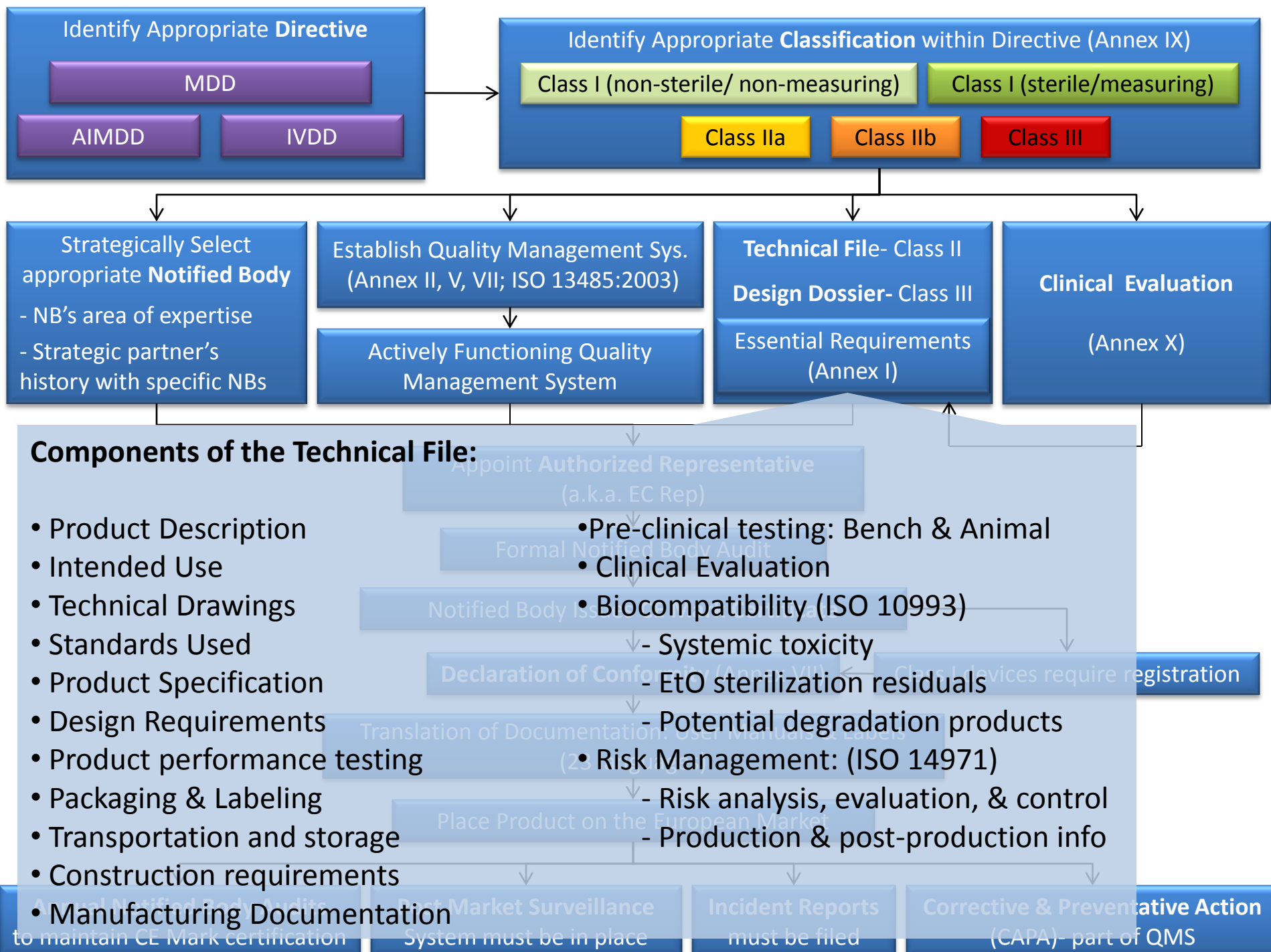


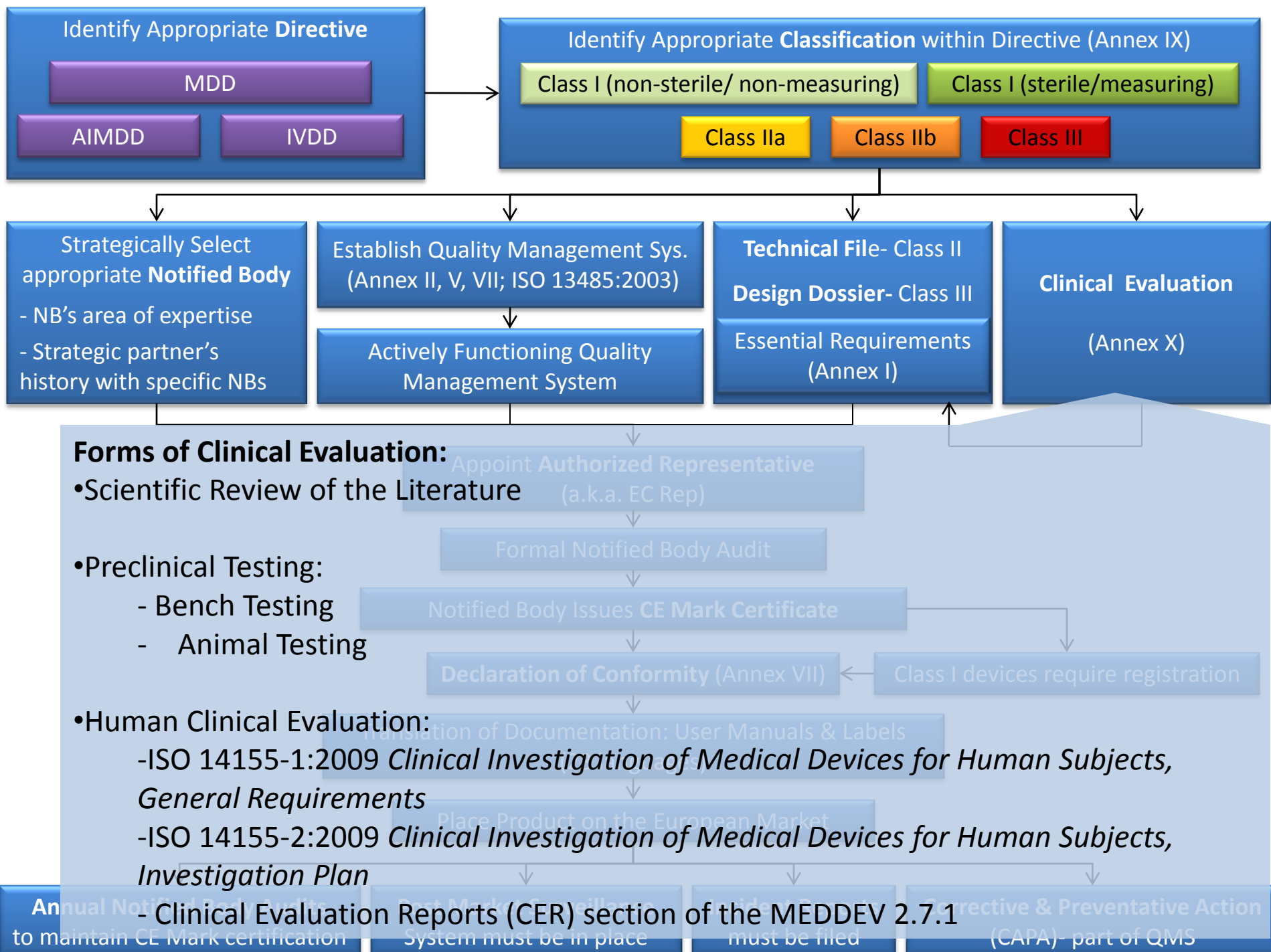












Identify Appropriate Directive

MDD

AIMDD

IVDD

Identify Appropriate Classification within Directive (Annex IX)

Class I (non-sterile/ non-measuring)

Class I (sterile/measuring)

Class III

Strategically Select appropriate Notified Body

- NB's area of expertise
- Strategic partner's history with specific NBs

MDD/AIMDD/IVDD

- BSI Group, UK
- TÜV SÜD, Germany
- NSAI , Ireland

AIMDD/MDD General

- TÜV Nord, Germany

AIMDD Specific

- EMKI, Hungary - Implantable heart pacemakers
- POLSKIE C BI, Poland - AI auditive prosthesis (Cochlear Imp)

Annual Notified Body Audits
to maintain CE Mark certification

Post Market Surveillance
System must be in place

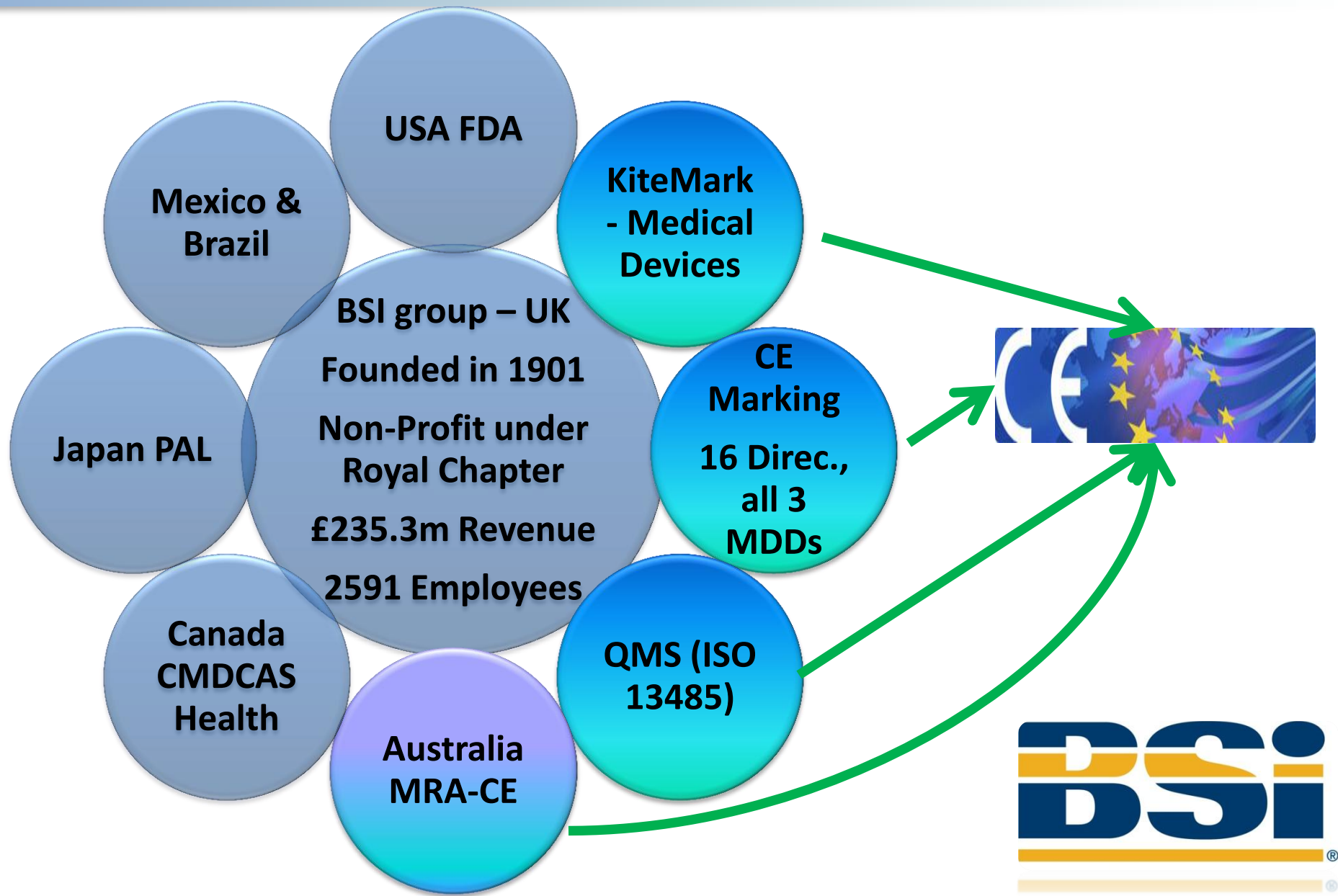
Incident Reports
must be filed

Corrective & Preventative Action
(CAPA)- part of QMS

General NBs in Medical Devices



Full Spectrum NB



AIMDD NBOG Codes


AIMDs Product Categorization

- **0100: General AIMDDs**
- 0101: AIMDs for stimulation / inhibition
- 0102: AIMDs delivering drugs or other substances
- 0103: AIMDs substituting or replacing organ functions

MDD & AIMDD SCOPE EXPRESSIONS, ADDITIONS

- MDS 7000: **MDD / AIMDD Specifics**
- MDS 7004: MDDs referencing the Directive 2006/42/EC on machinery
- MDS 7005: MDDs referencing the Directive 89/686/EEC on personal protective equipment (PPE)
- MDS 7006: MDDs in sterile condition

AIMDD (90/385/EEC) Products



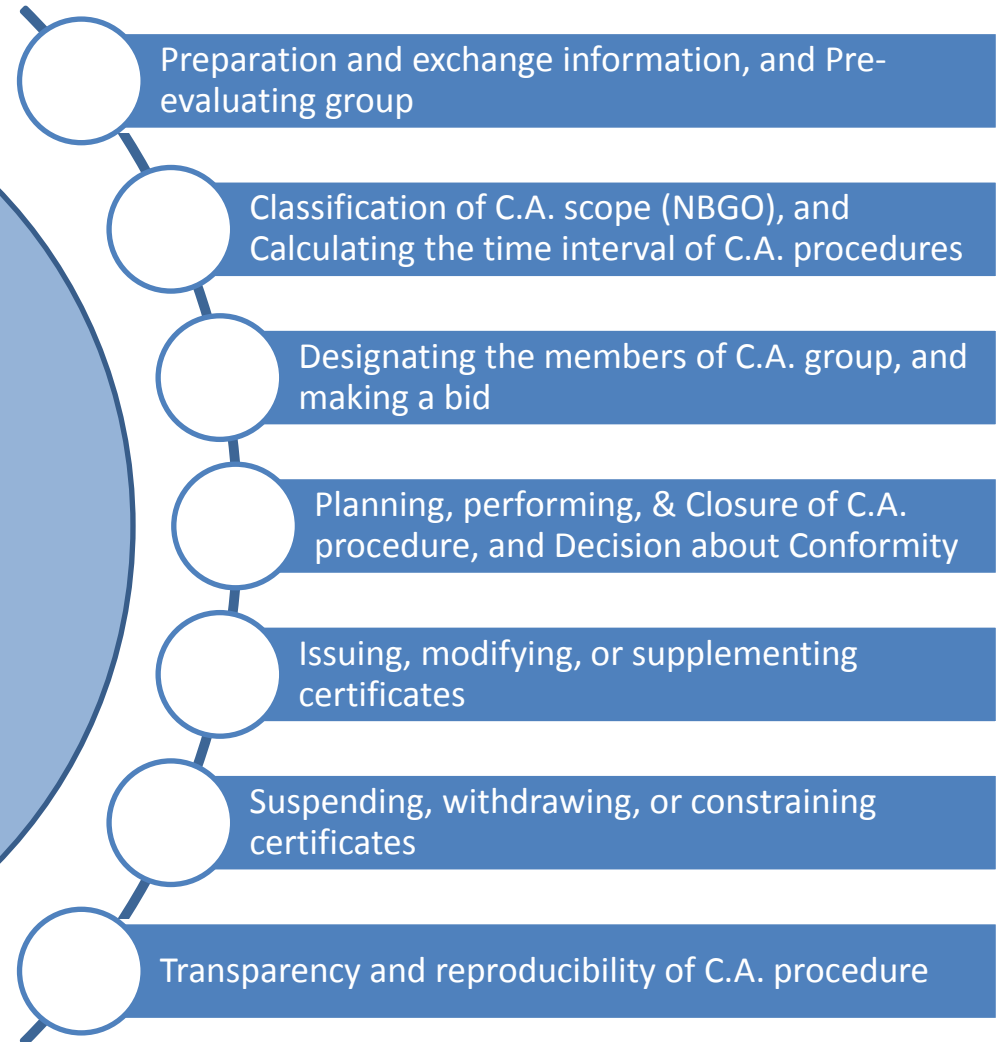
Implantable active monitoring devices	<ul style="list-style-type: none">• Programmers, software, transmitters
Implantable Nerve Stimulators	<ul style="list-style-type: none">• Cochlear implants
Stimulators	<ul style="list-style-type: none">• Bladder• Sphincter• Diaphragm
Implantable active drug administration	<ul style="list-style-type: none">• Devices• Catheters• Sensors
Implantable cardiac	<ul style="list-style-type: none">• Pacemakers• Defibrillators• Leads, electrodes, adaptors

Specific AIMDD NB

**EMKI – Hungary
MDD/AIMDD/IVDD**



**But only implantable
heart pacemakers in
AIMDD directive
Specialized in
pacemakers**



Conformity Assessment

Specific AIMDD NB

EMKI – Hungary
MDD/AIMDD/IVDD

EMKI

But only implantable
heart pacemakers in
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Specialized in
pacemakers

Preparation and exchange information, and Pre-evaluating group

In case of sole
product line of

Classification of C.A. scope (NBGO), and
Carrying out the internal C.A. procedures

Designating the members of C.A. group and
making a list

Examining, performing, & Closing C.A.
procedure, and Decision about Conformity

being a start-up, or
Issuing, modifying, or supplementing
certificates

prior strategic
S Suspending, withdrawing, or constraining
certificates

partnership with

Transparency and reproducibility of C.A. procedure

EMKI

C.A. Conformity Assessment

The Authorize Representative acts as a regulatory liaison between each country's ministry of health (aka Competent Authorities) and the company.

Authorized Representative Function:

- Has access to technical files if review is requested by Competent Authorities
- Aids in Product Registration process
- Aids in Incident Reporting
- Recall Notification
- Change Notification

Appoint **Authorized Representative**
(a.k.a. EC Rep)

Formal Notified Body Audit

Notified Body Issues **CE Mark Certificate**

Declaration of Conformity (Annex VII)

Class I devices require registration

Translation of Documentation: User Manuals & Labels
(23 languages)

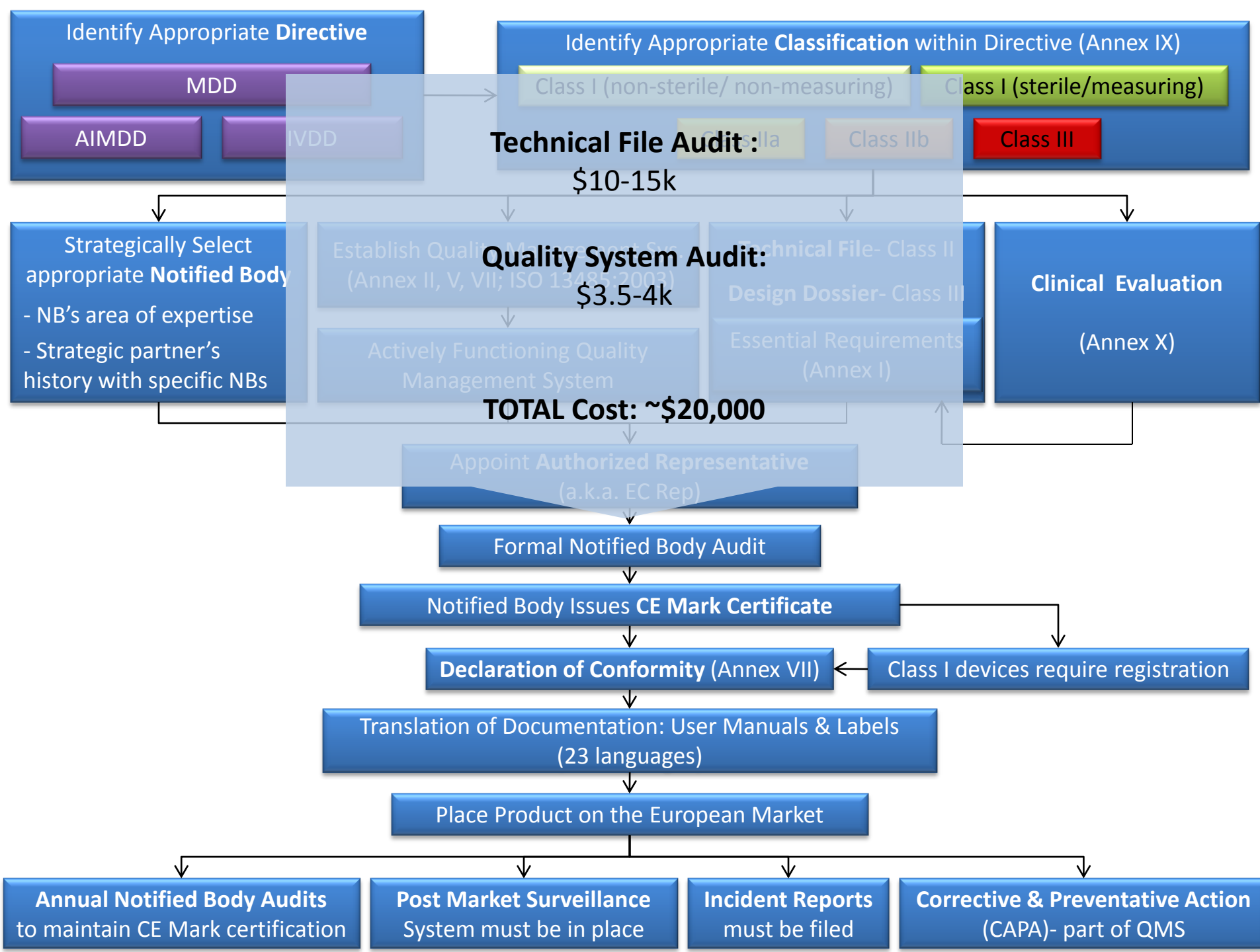
Place Product on the European Market

Annual Notified Body Audits
to maintain CE Mark certification

Post Market Surveillance
System must be in place

Incident Reports
must be filed

Corrective & Preventative Action
(CAPA)- part of QMS



Conformity Assessment Procedure Options Based on Directive

A

- Internal production control

Aa

- Intervention of a Notified Body

B

- EC type-examination

C

- Conformity to type

D

- Production quality assurance

E

- Product quality assurance

F

- Product verification

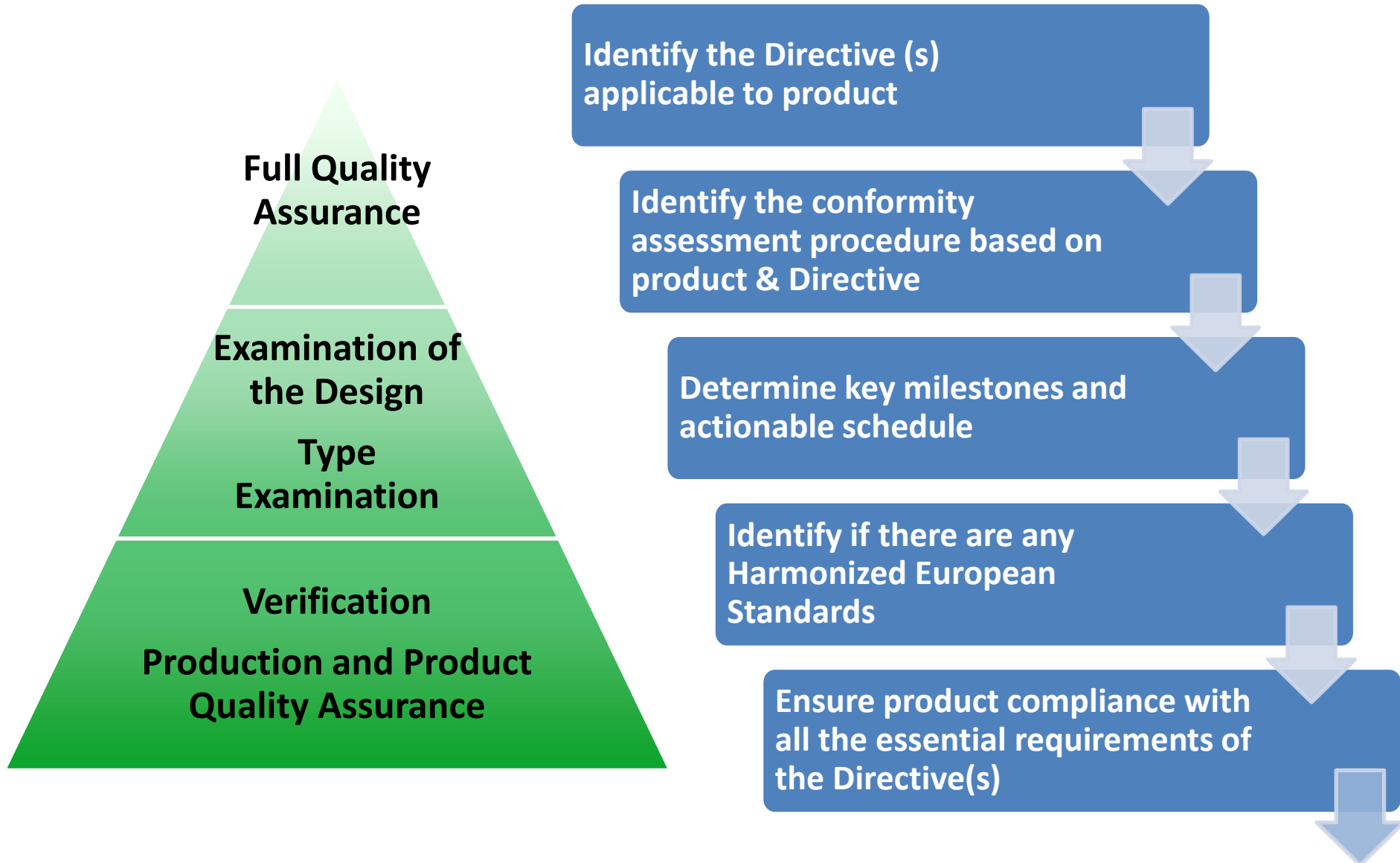
G

- Unit verification

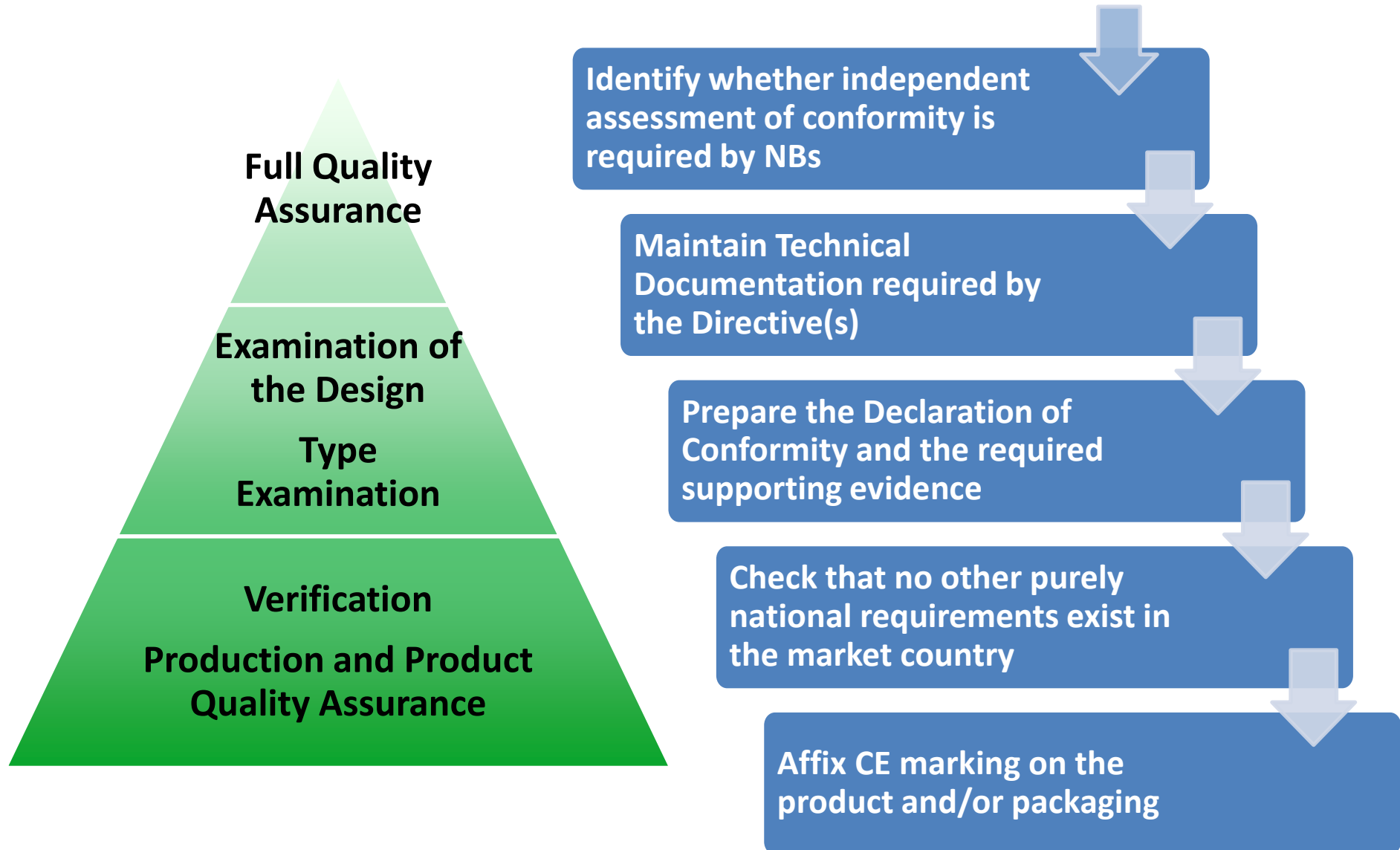
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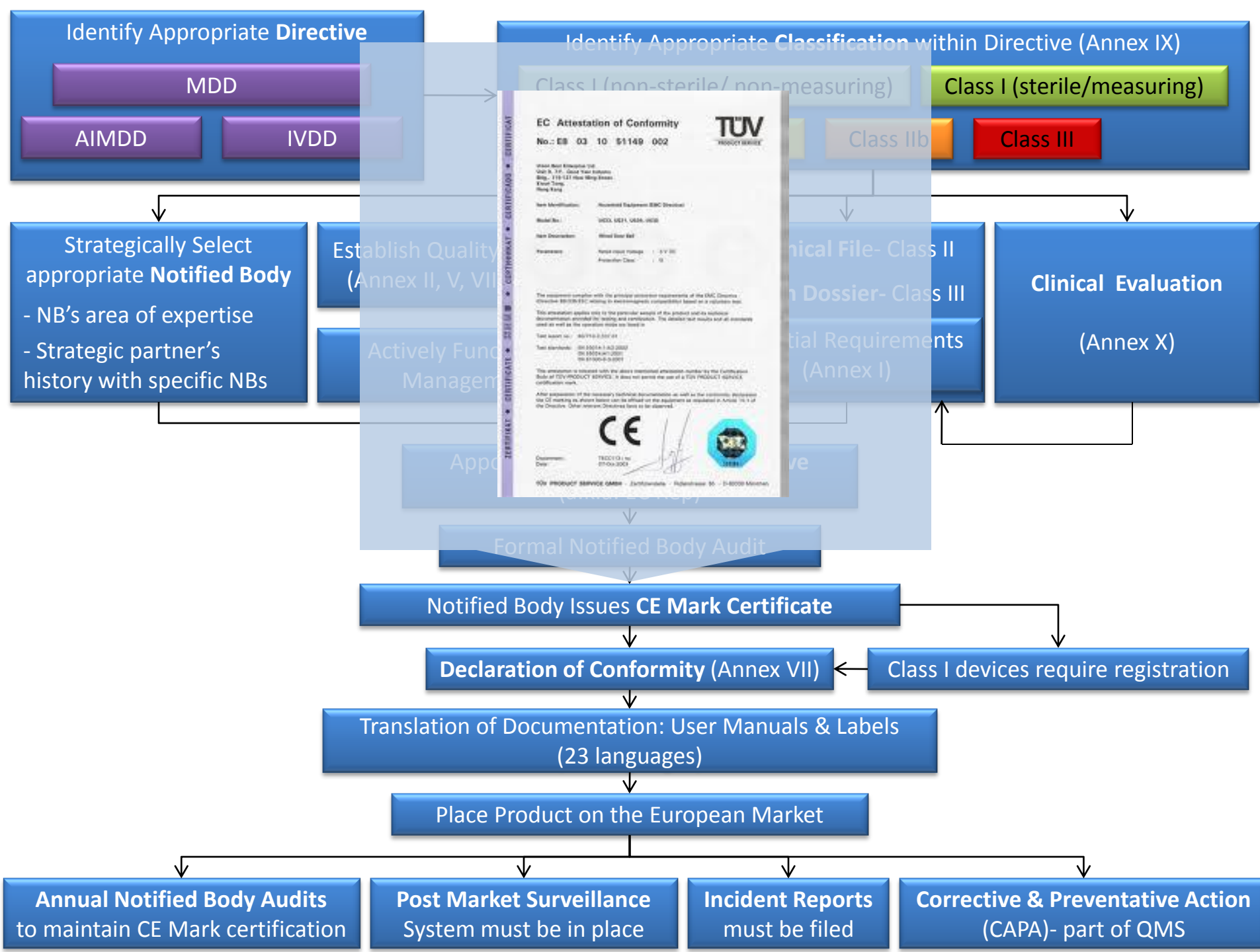
- Full quality assurance

Notified Body's Roles within CEM Certification



Notified Body's Roles within CEM Certification





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MDD

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Class I (non-sterile/ non-measuring)

Class I (sterile/measuring)

Components:

- Product identification
- Product classification
- EU directives with which the product complies
- Standards used
- Name of the Notified Body used
- The manufacturer's name and address
- CE Mark certificate number
- Signature on behalf of the manufacturer or EC Rep.



Declaration of Conformity (Annex VII)

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Class I (sterile/measuring)

Class IIa

Class IIb

Class III

Strategically Select appropriate **Notified Body**

- NB's area of expertise
- Strategic issues
- history with specific NBs

Establish Quality Management Sys. (Annex II, V, VII; ISO 13485:2003)

Technical File- Class II

Design Dossier- Class I

Essential Requirements (Annex X)

Evaluation

CE Mark is recognized by all 27 countries within the European Union (EU) as well as others in the region that are not necessarily part of the EU plus Canada, Australia, etc. around the globe

Authorized Representative (a.k.a. EC Rep)

Conformity Assessment

Declaration of Conformity

Translation of Documentation: User Manuals & Labels (23 languages)

Place Product on the European Market

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Corrective & Preventative Action (CAPA)- part of QMS

EU Medical Device Classification & CE Mark Requirements Summary

EU Class	Device Risk	Type of devices	Technical File Required	Requires Full Quality System	Requires NB Auditing	Requires Authorized Representative	Form of Clinical Evaluation	Requires device to be Registered	
Class I (non-sterile/ non-measuring)	Low	examination gloves	Yes	No	No; Self declaration of conformity by manufacturer is acceptable	Yes	Possible Scientific Literature Review	Yes	
Class I (sterile/ measuring)	Low	surgical gloves, patient scales		Yes	Yes				Yes
Class IIa	Medium	Natural Orifice Access; wound management; hearing devices, EKG, etc.							
Class IIb	Medium	Partial/Total Implantable; surgical lasers, ventilators							
Class III	High	Devices that affect vital organs; Life Support; heart valves	Yes, in the form of a Design Dossier				Highly Likely that clinical trial is required		