

Connected Health Summer School
Artimino, Tuscany, Italy 26 - 29 June 2017

Implementation of innovative service in AHA context,
a real pluriannual ongoing service

The Adapted Physical Activity programme

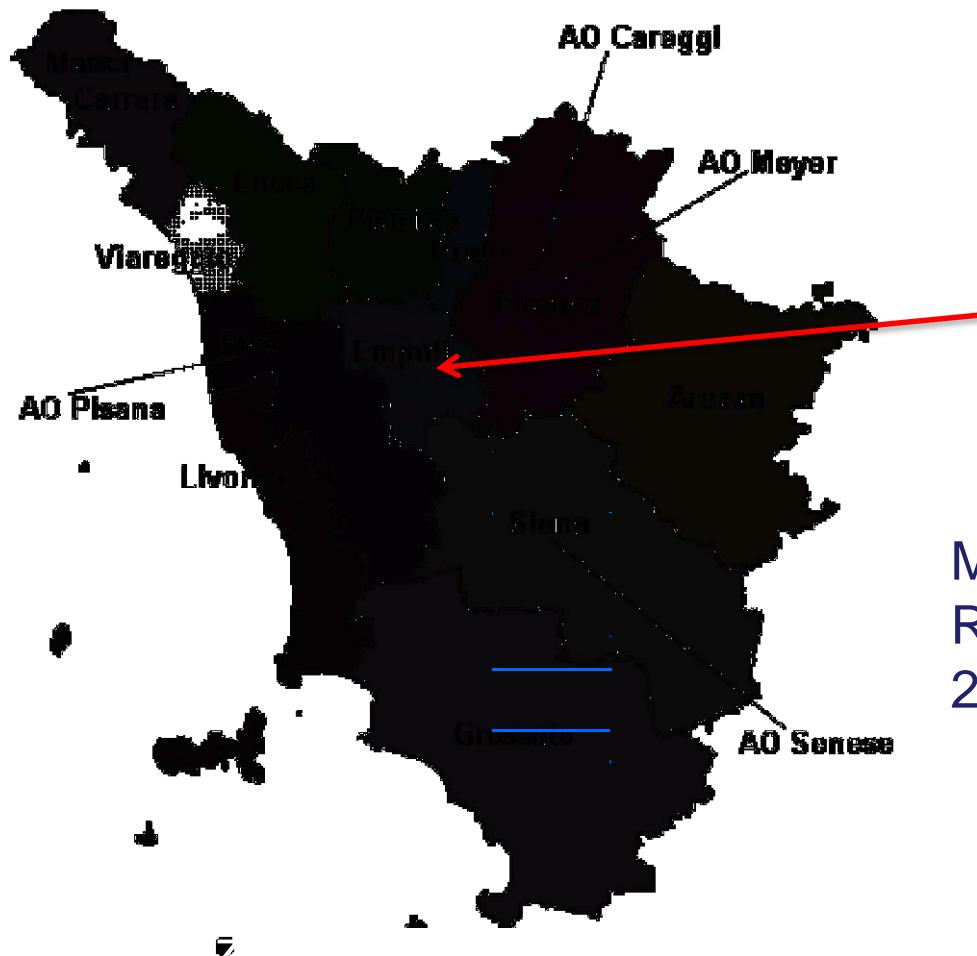
Francesco Benvenuti
ARS, Regione Toscana, Italy



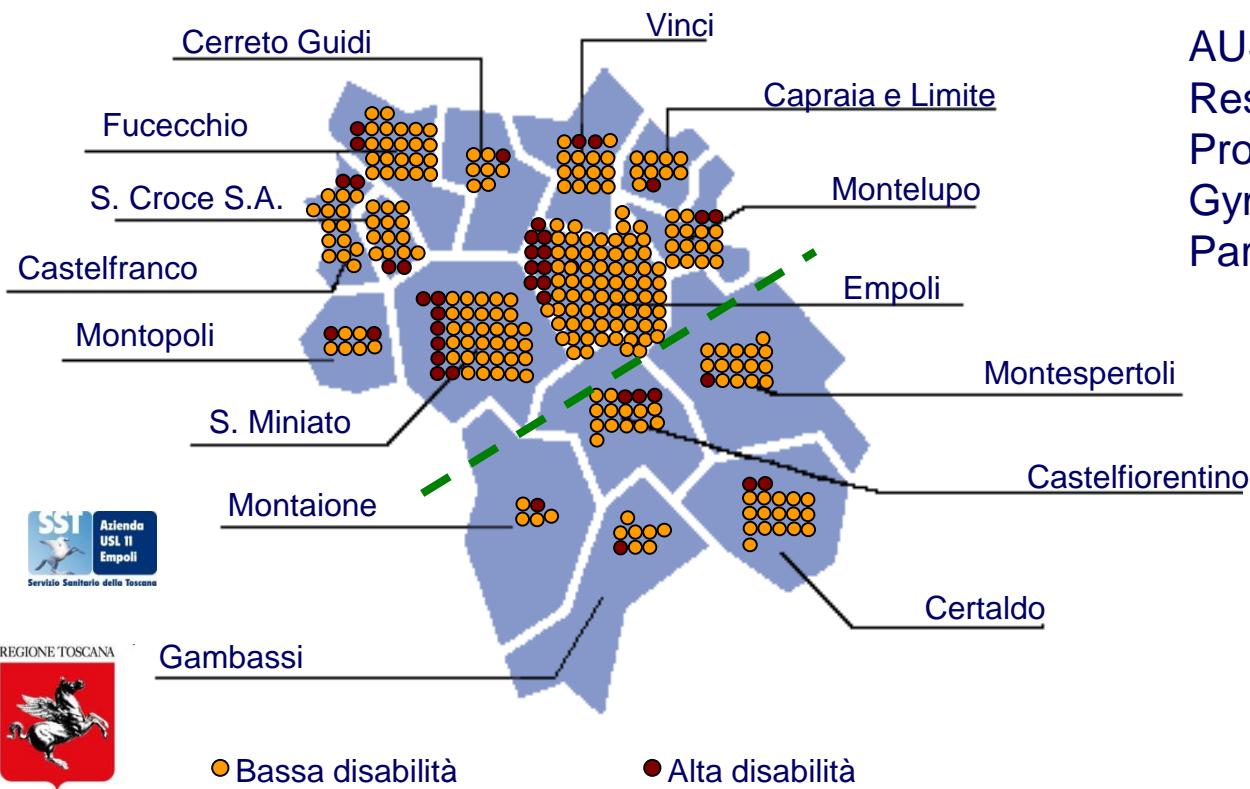
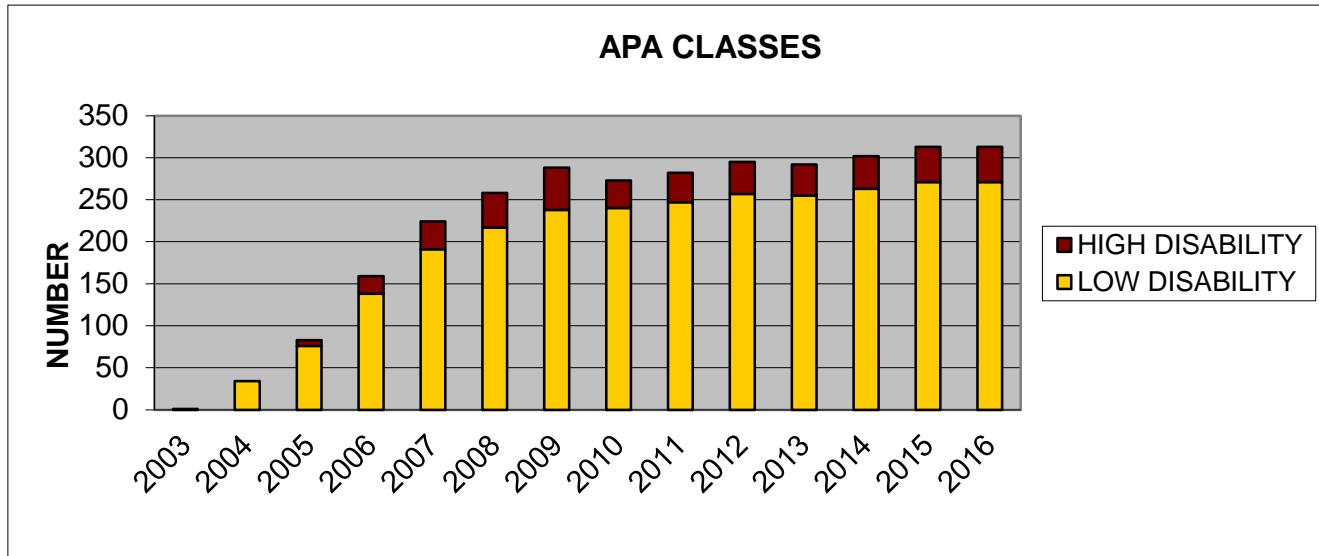


APAs

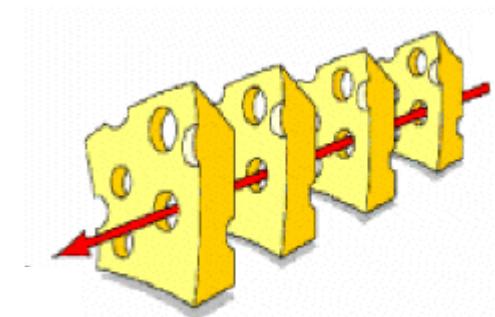
Physical activity programs, carried out in group, adapted to chronic alterations of functional status for prevention or mitigation of disability



Municipalities 15
Residents 231.000
22% \geq 65 years



AUSL11:
 Residents: 231.000, 22% ≥ 65 years
 Providers: 43
 Gyms/pools: 103
 Participants (dic. 2015): 4600



Summary

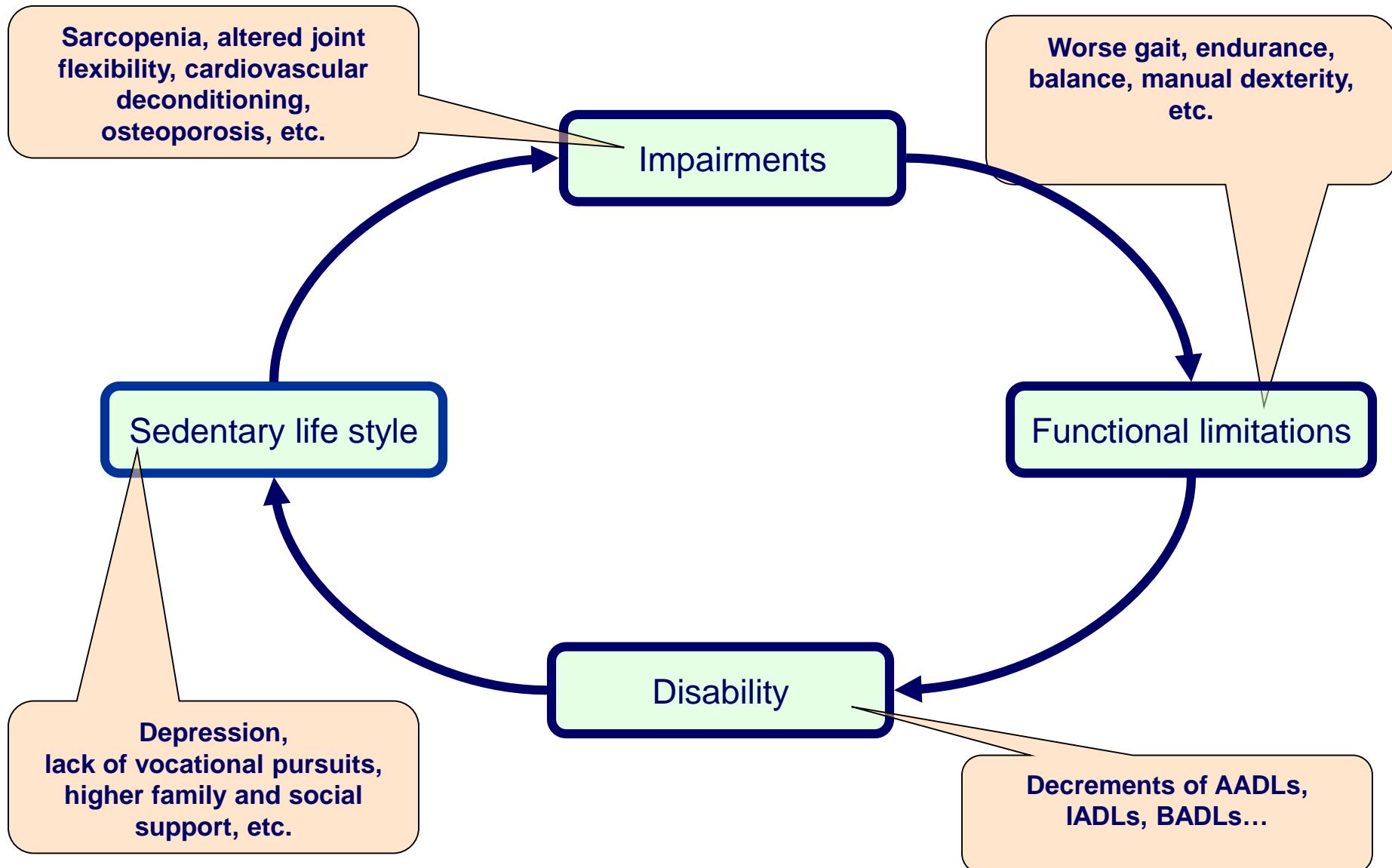
- Bridge evidence to practice
- Promote a collaborative environment
- Prepare future

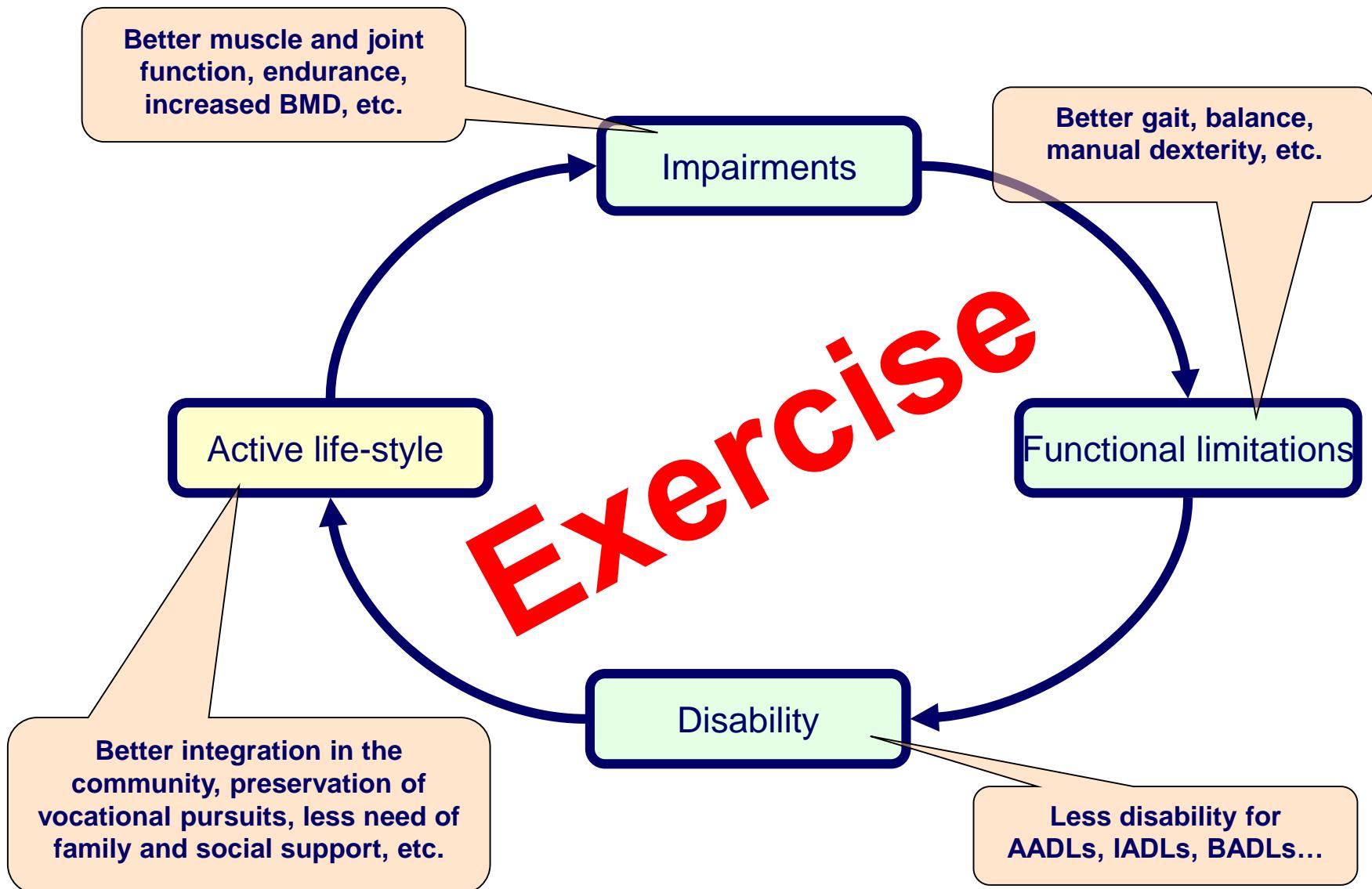
Summary

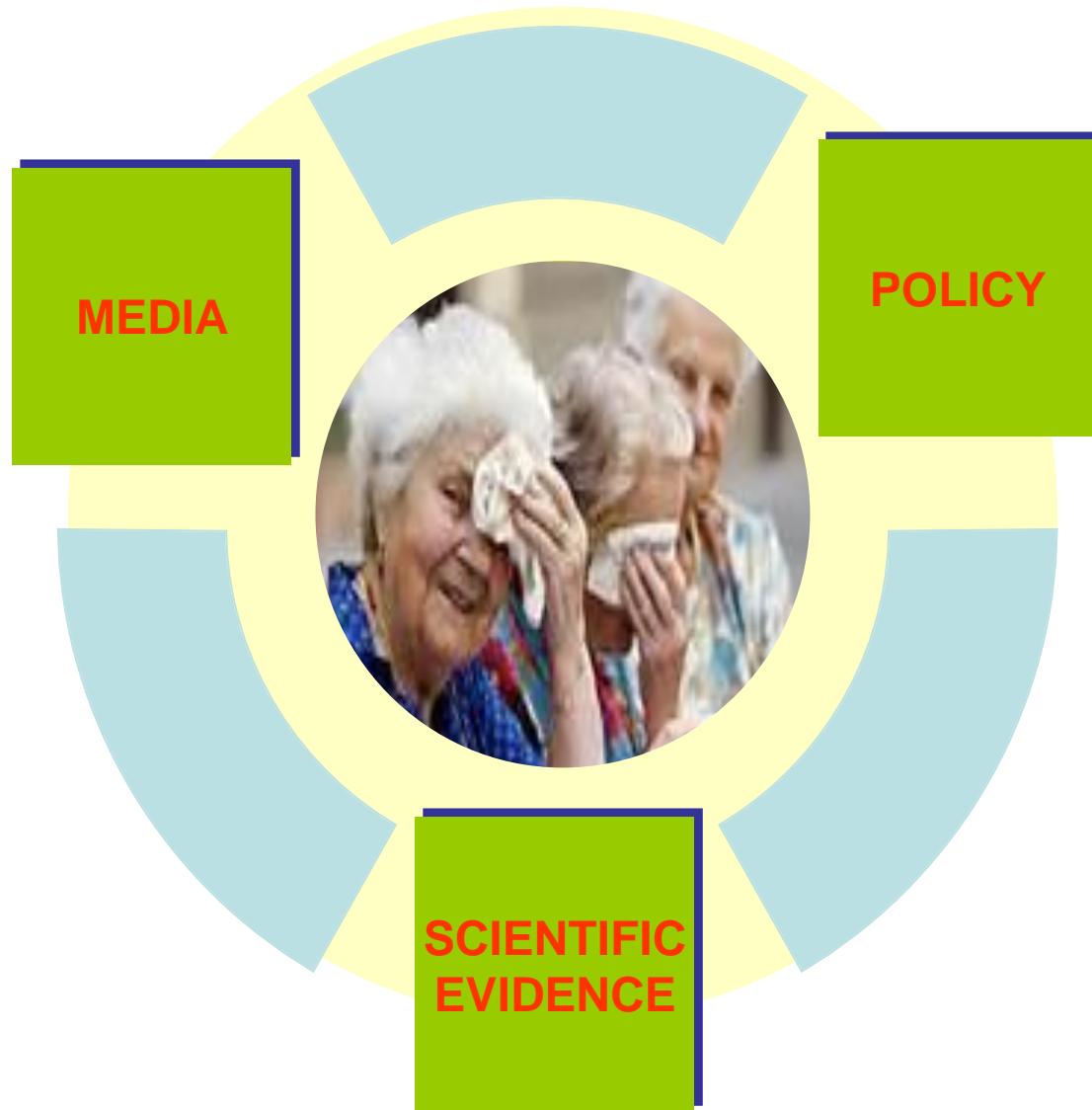
- **Bridge evidence to practice**
- Promote a collaborative environment
- Prepare the future

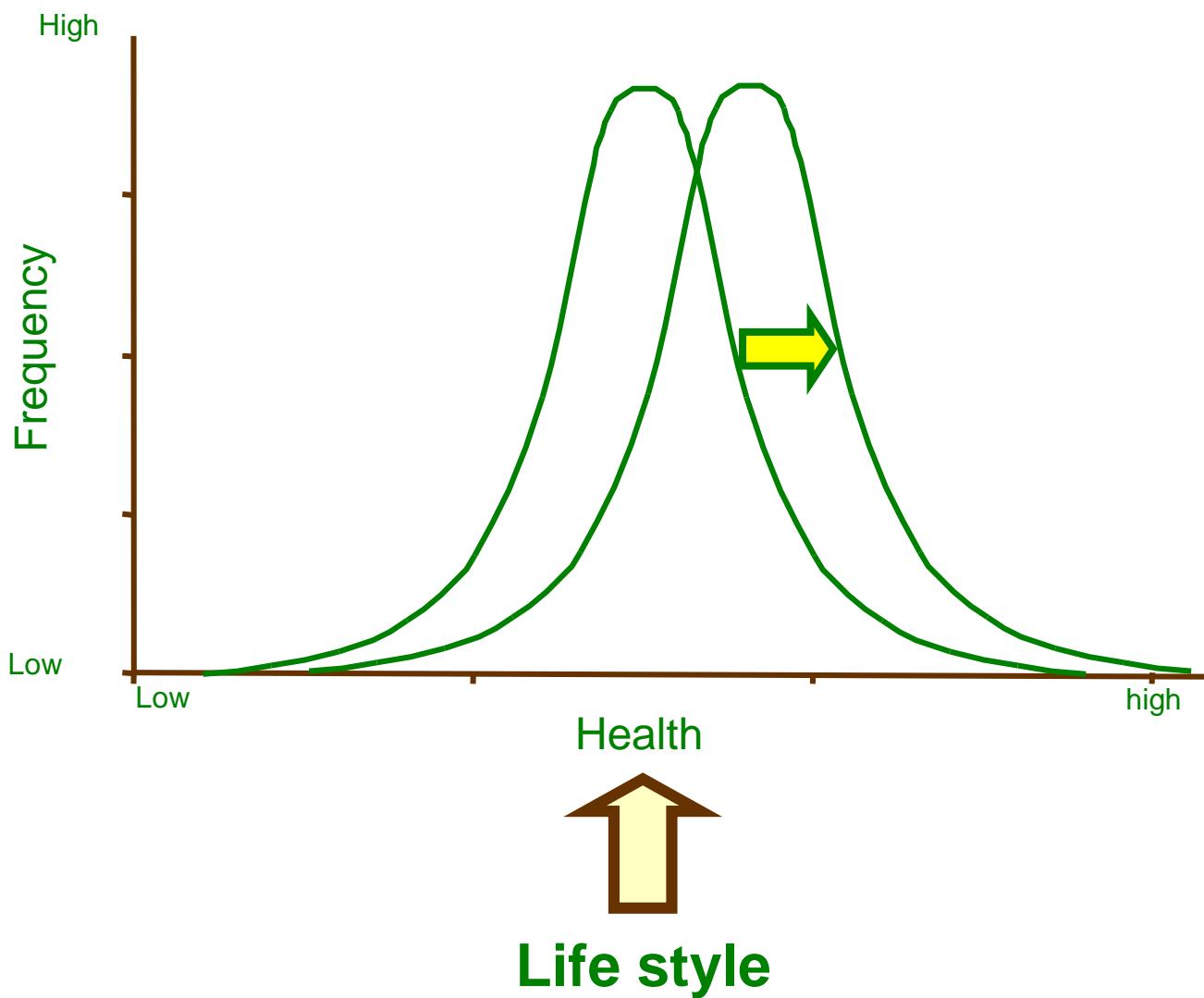
Disease or Syndrome	Treatment or Primary Prevention	Tertiary Prevention
Cancer (breast, colon, prostate)	Yes	No
Coronary artery disease	Yes	Yes
Chronic obstructive pulmonary disease	No	Yes
Dementia (different from multiinfarct dementia)	No	No
Depression	Yes	Yes
Diabetes type 2	Yes	Yes
Mobility impairment, falls	Yes	Yes
Chronic renal failure	Yes	Yes
Peripheral vascular disease	Yes	Yes
Hypertension	Yes	Yes
Back pain	No	Yes
Congestive heart failure	No	Yes
Obesity	Yes	Yes
Arthritis	No	Yes
Osteoporosis	Yes	Yes
Parkinson's dis., CNS degenerative disorders	No	Yes
Stroke	Yes	Yes
Venous stasis disease	Yes	Yes

The exercise is
Safe & Effective

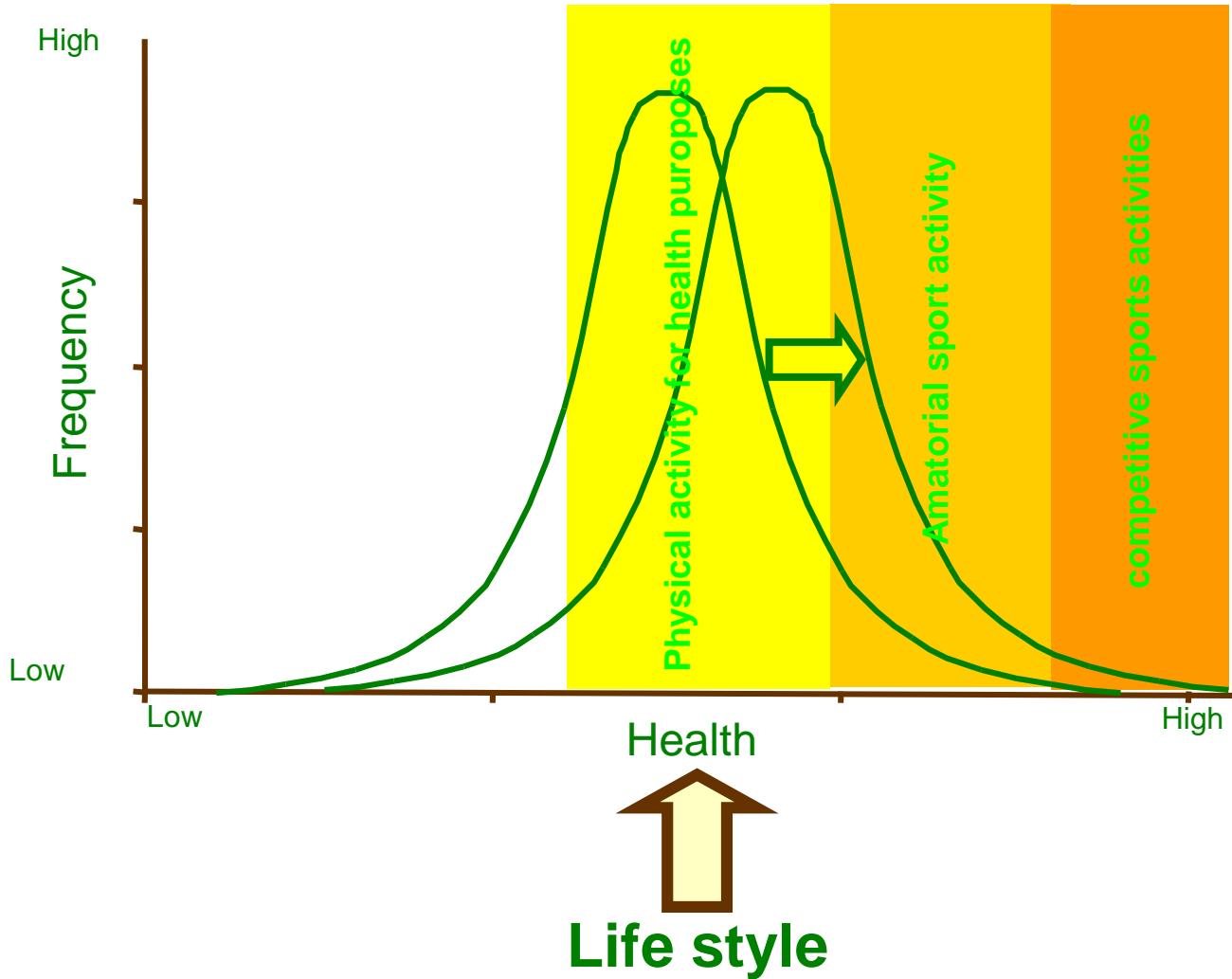








LR 35/03





REGIONE TOSCANA
GIUNTA REGIONALE

ESTRATTO DAL VERBALE DELLA SEDUTA DEL 30-05-2005 (punto N. 19)

Delibera

N.595

del 30-05-2005

Proponente

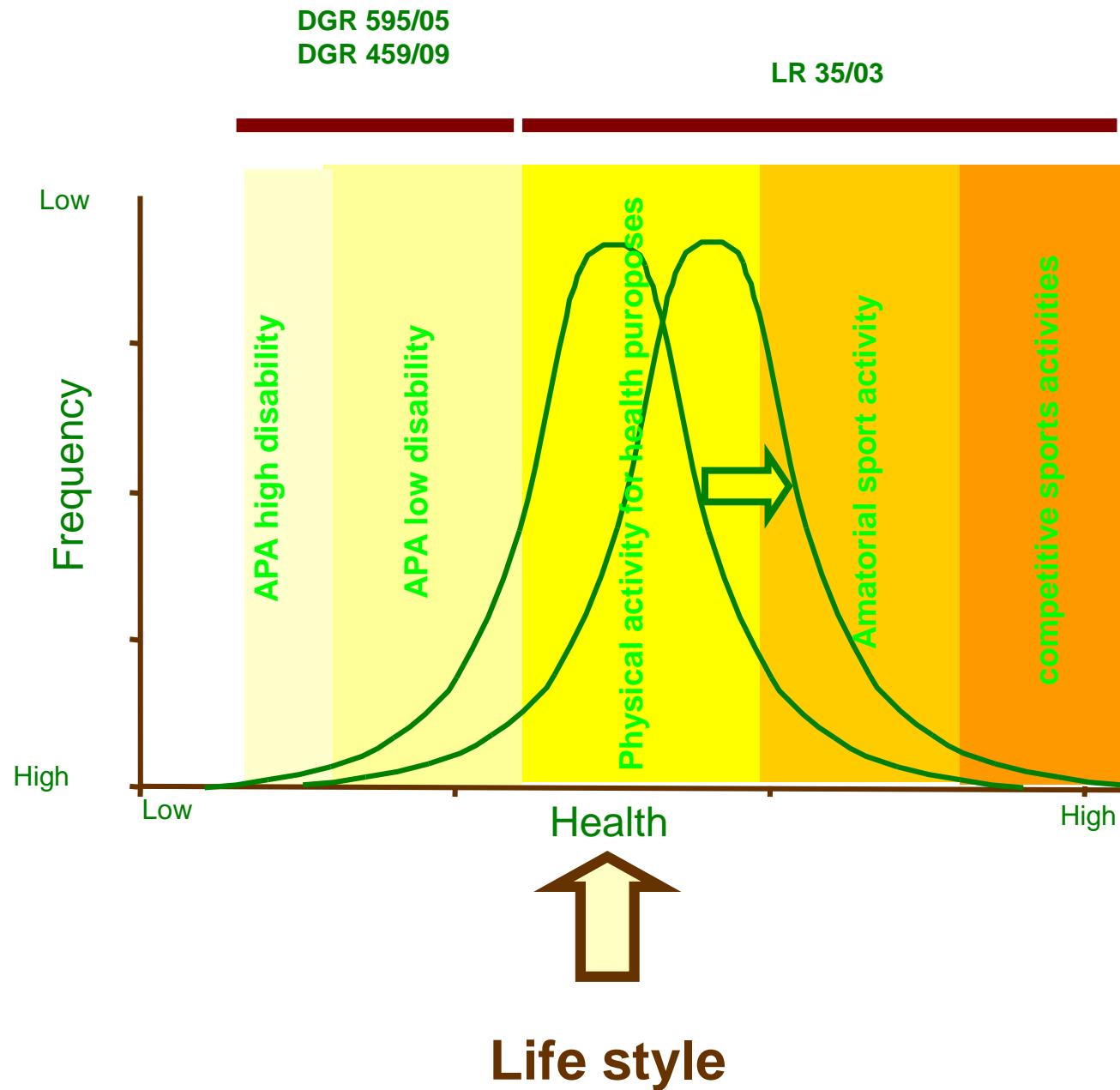
ENRICO ROSSI

DIREZIONE GENERALE DI DITTO ALLA SALUTE E POLITICHE DISABILITA' E
**FOR HYPOMOBILITY SYNDROMES AND
OSTEOPOROSIS AND CHRONIC SYNDROMES
WITH STABILIZED OUTCOMES APA
PROGRAMS ARE APPROPRIATE....**

Posto di lavoro: Direttore della Ditta o Ente sotto cui si svolge la funzione
Dirigente Responsabile: Laura Tramonti
Estensore: Natale Gianni
Oggetto:
*Percorso assistenziale per le prestazioni di riabilitazione ambulatoriale (allegato 2b, DPCM
29 novembre 2001) . Percorso assistenziale per le prestazioni di riabilitazione ambulatoriale.*

Aims:

- follow EBM
- redirect inappropriate rehab treatments towards APA



Summary

- Bridge evidence to practice
- **Promote a collaborative environment**
- Prepare the future

Easy and safe access:

- effective and clearly defined exercise programs adapted to participants' functional status
- easy access procedures (for citizens & clinicians)
- low cost AND economically sustainable for trainers and participants
- widespread geographic distribution



 REGIONE TOSCANA
GIUNTA REGIONALE

ESTRATTO DAL VERBALE DELLA SEDUTA DEL 03-06-2009 (punto N. 23)

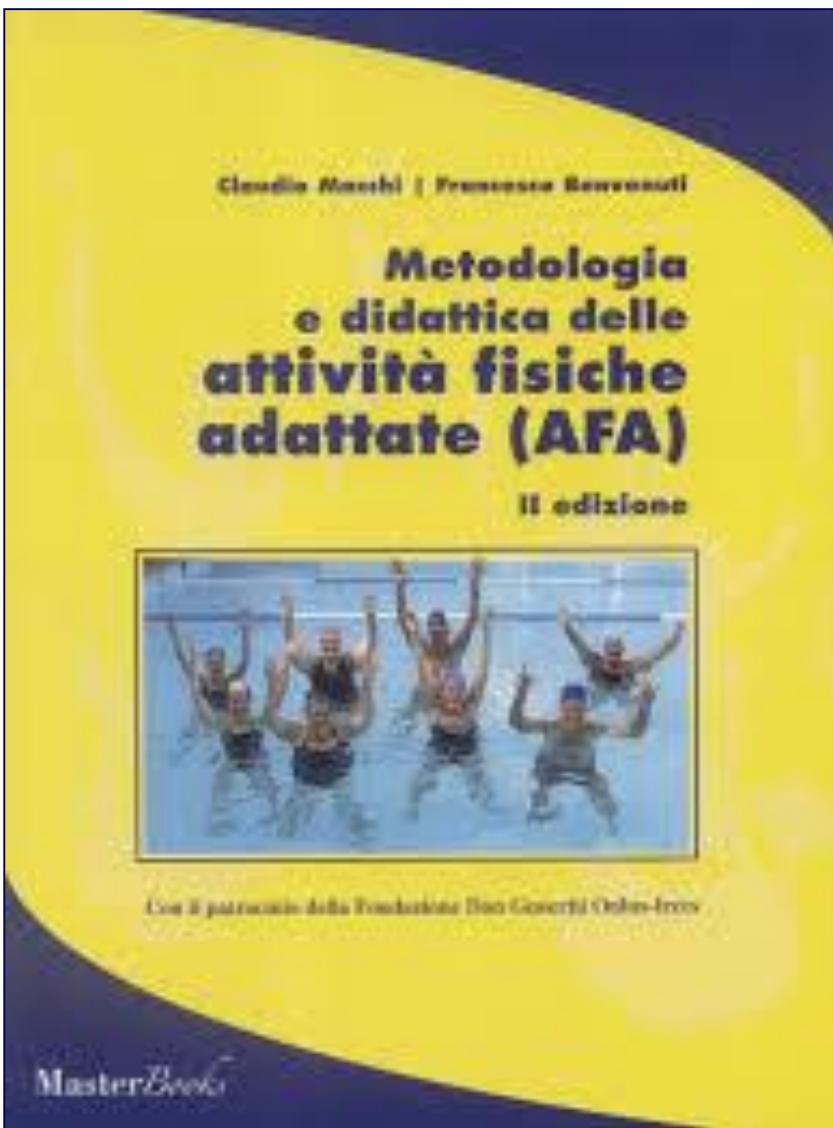
Delibera N. 459 del 03-06-2009

PropONENTE
ENRICO ROSSI

DIREZIONE GENERALE DIRITTO ALLA SALUTE E POLITICHE DI SOLIDARIETA'

Pubblicita'/Pubblicazione: Atto soggetto a pubblicazione su Banca Dati (PBD)
Dirigente Responsabile: Andrea Leto
Estensore: Gloria Scopetani
Oggetto:
Attività Fisica Adattata (AFA). Approvazione "Documento di indirizzo" e schema di Accordo tra Regione Toscana, Organizzazioni sindacali confederali, sindacati dei pensionati del lavoro autonomo e Enti di promozione sportiva.

CLEARLY DEFINID EXERCISE PROGRAMS

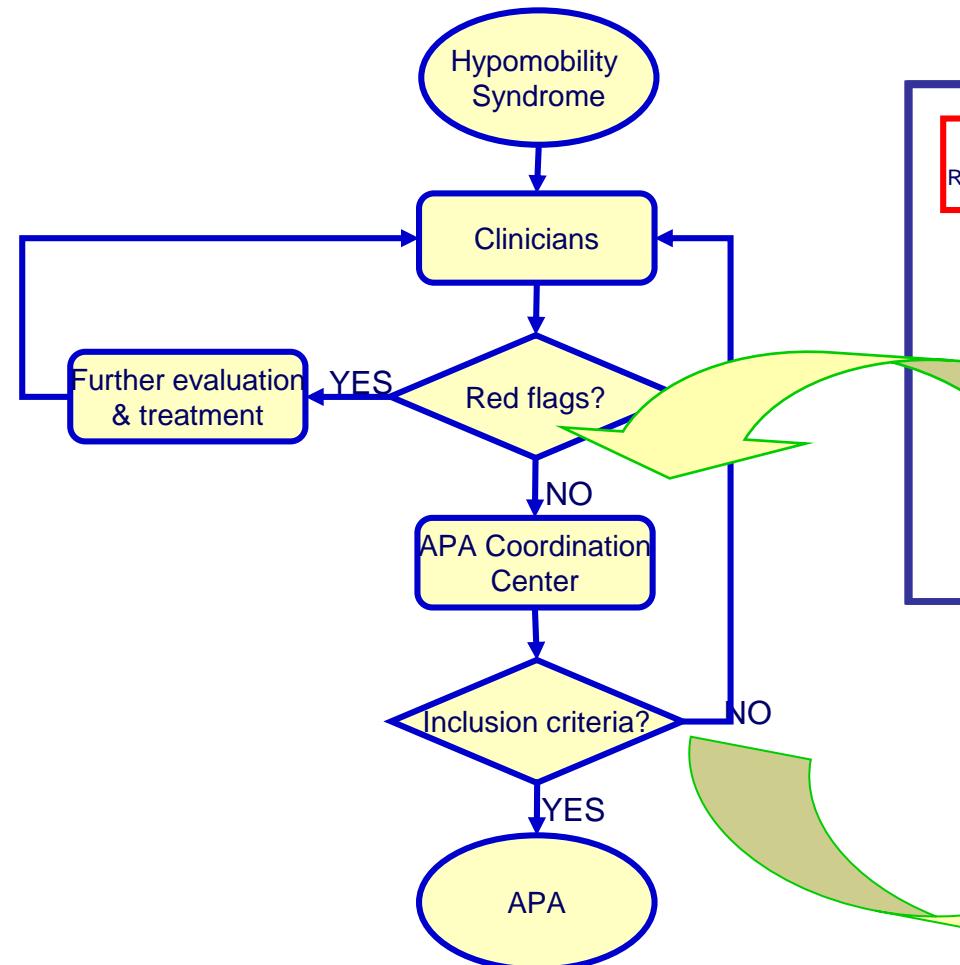


Master Libri
Via Morgagni, 39/R
50134 Firenze
tel. 055/4368577
fax 055/4249446
masterlibri@libero.it

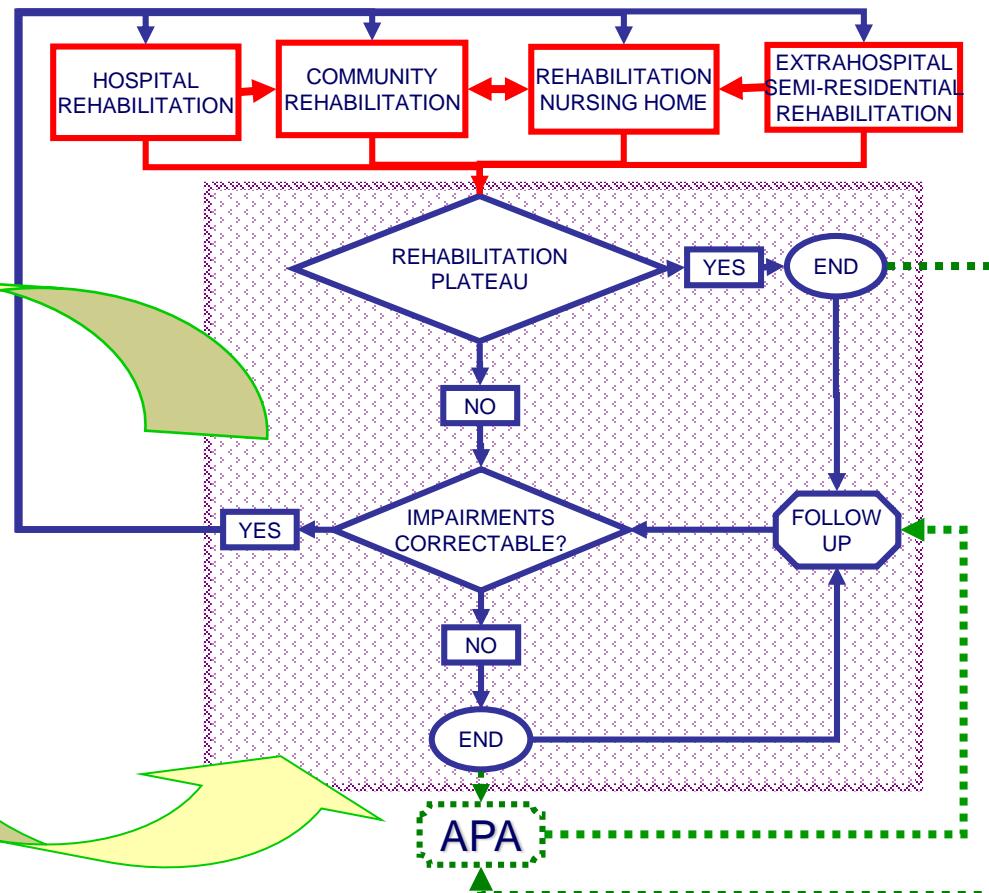
www.usl11.toscana.it

EASY AND SAFE ACCESS PROCEDURES

Low disability APA Programs



High disability APA Programs



SAFETY & EFFECTIVENESS CONTROL



GYM VISITS
TELEPHONE INTERVIEWS
AUDITS

ACCESSI AL PRONTO SOCCORSO

Frattura 5° dito mano sinistra (2004)

***Frattura omero sinistro (2005)**

Frattura polso destro (2006)

Ferita lacera frontale (2008)

***Ferita lacera frontale (2010)**

***Frattura D12 (2011)**

***Eventi clinici avversi durante le sessioni AFA**

WIDESPREAD GEOGRAPHIC DISTRIBUTION OF GYMS



 UISP UNIONE SINDACATO SPORT PER TUTTI Comitato Uisp Empoli-Valdelsa e zona del Cirio	 Misericordia San Miniato Bassa	 Dromos ASD Castelfiorentino	 ASD Toscana Atletica Empoli	 Piscine Aquatempa Empoli, Santa Croce, Certaldo, Cesaia	 Movida Castelfranco di Sotto	 Palestra Athena Centaldo	 La Palestre della Vita Ponte a Egola	 Centro Studi Discipline Orientali-Spieghio, Vinci	 Vital Center Empoli	 ASD Bunny Club Vinci	 Centro Medico Castelfiorentino	
 ASD Delfini Ponte a Elsa	 Palestra You Fit Santa Croce sull'Arno	 Palestra XL Feel Good ASD Gam	 Palestra Body Mind Santa Croce sull'Arno	 Palestra Anna Empoli	 Palestra Noi Sport Castelfranco di Sotto	 Palestra Oasi Gambassi Terme	 Palestra Mya Sovigliana, Vinci	 Palestra Budokan Capraia Fina	 Palestra Barba Gym La Scala, San Miniato	 Centro Vitality Certaldo		
 Mosotys Limite sull'Arno	 SSDRL Salvanti Empoli	 Ass. Polisportiva Certaldo	 Ass. Polisportiva Montelugo F.no	 Associazione Montesport Montespertoli	 Palestra The Prince Montelupo F.no	 Associazione Aquam Fucecchio	 Natural Wellness Fitness Montespertoli	 Piscina Azzurra Castelfiorentino	 Palestre Natural Cerreto Guidi	 Centro Terapia Fisica Ponte a Egola	 Palestre Il Cigno Fucecchio	 Fisio Life Castelfiorentino



2.20 € per 1 hour session

27 € per month for 3 times/week classes
20 € per month for 2 times/week classes

plus 10 € / year for insurance

€7 million

$$(\text{Cappuccino} + \text{Croissant}) = 2.30 \text{ €}$$

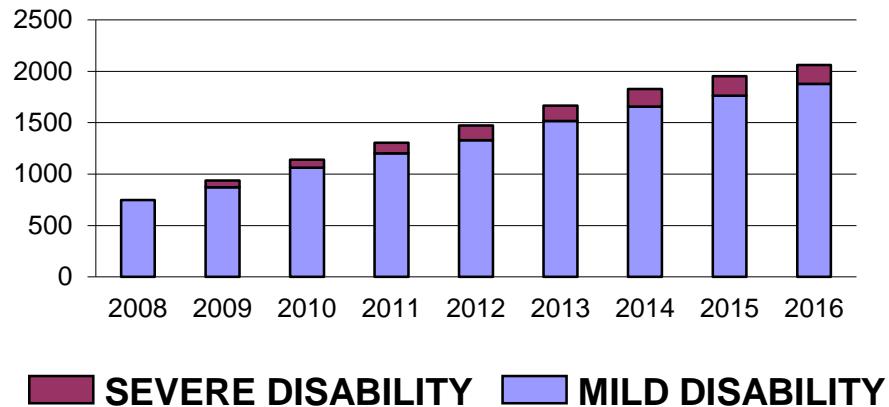


APA IN TUSCANY

Residents aged >65 years: 933.022 (23%)

Scaling up...

CLASSES



Municipalities: 237/278 (85%)

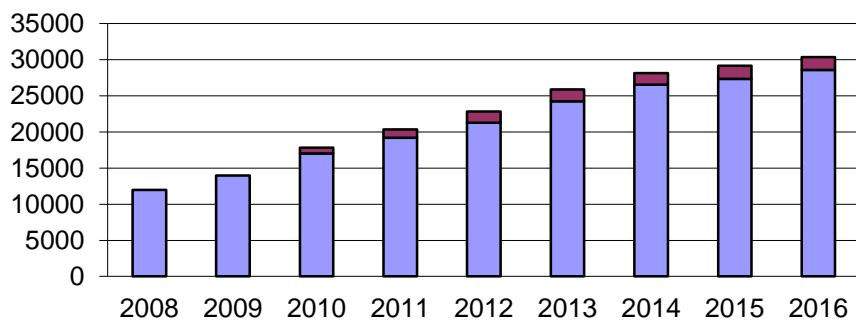
Providers: 467

Gyms/Pools: 876

Classes: 2062

Participants: ≈30.000

PARTICIPANTS



Source: Tuscany Region
Dicember 2015



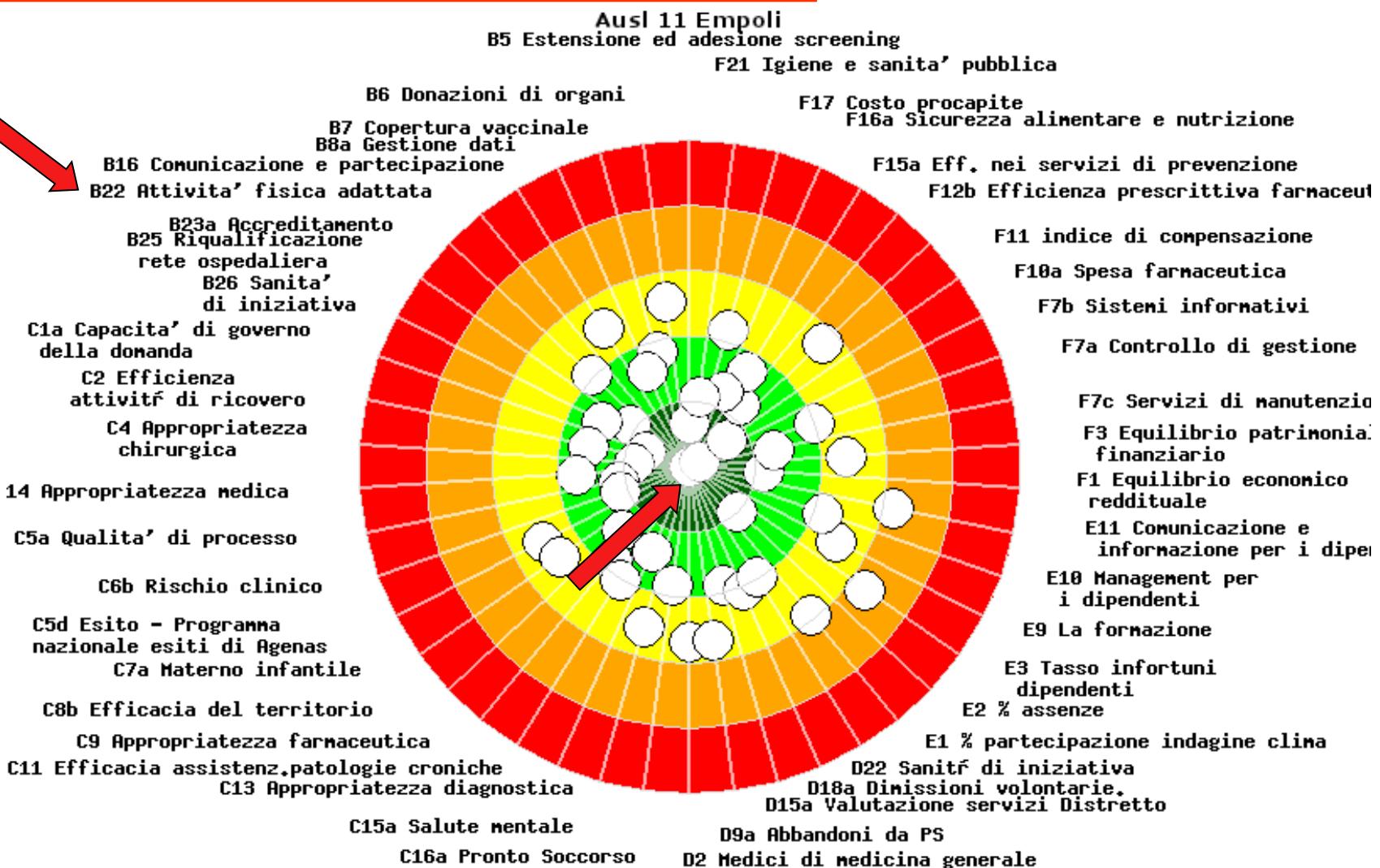
Regione Toscana

Diritti Valori Innovazione Sostenibilità

Direzione Diritti di Cittadinanza e Coesione Sociale
Settore Organizzazione delle Cure e Percorsi Cronicità

GOALS FOR THE GENERAL DIRECTORS OF THE LOCAL HEALTH AUTHORITIES BY TUSCANY REGION

Promote a collaborative environment





3.2.2011

Conferenza Stato Regioni ed Unificata

ACCORDO TRA IL MINISTRO DELLA SALUTE, LE REGIONI E LE PROVINCE AUTONOME DI TRENTO E DI BOLZANO CONCERNENTE IL PIANO D'INDIRIZZO PER LA RIABILITAZIONE

LA CONFERENZA PERMANENTE PER I RAPPORTI TRA LO STATO, LE REGIONI E LE PROVINCE AUTONOME DI TRENTO E BOLZANO

Visti gli articoli 2, comma 2, lettera b) e 4, comma 1, del decreto legislativo 28 agosto 1997, n. 281, che attribuiscono a questa Conferenza il compito di promuovere e sancire accordi tra Governo e Regioni, in attuazione del principio di leale collaborazione, al fine di coordinare l'esercizio delle rispettive competenze per svolgere attività di interesse comune;

Visto l'articolo 1, comma 7, del decreto legislativo 30 dicembre 1992, n. 502 e successive modifiche e integrazioni, che prevede che, su richiesta delle regioni o direttamente, il Ministero



Adherence to a Community-Based Strong Predictor of Improved Back Adults: An Observation

Gregory E. Hicks, PT, PhD,* Francesco E. Valentino Fiaschi, PT, MSc,‡ Bruna Lombardi, MD,§ Luciana Inorid Pretzer-Aboff, RN, PhD,## Gensini Gianfranco, MD *

JRRD
Journal of Rehabilitation Research & Development
Volume 45, Number 2, 2008
Pages 323–328

Adaptive physical activity improves mobility in chronic hemiparesis

Richard F. Macko, MD;^{1,3} Francesco Benvenuti, MD;^{4*} Steven Antonia Taviani, MD;⁴ Barbara Nesi, PT;⁴ Michael Weinrich,
¹Geriatic Research, Education, and Clinical Center, Department of Veterans Affairs, Baltimore VA Medical Center (VAMC) Baltimore, MD.²

JRRD
Journal of Rehabilitation Research & Development
Volume 45, Number 2, 2008
Pages 323–328

Adaptive physical activity improves mobility in chronic hemiparesis

Richard F. Macko, MD;^{1,3} Francesco Benvenuti, MD;^{4*} Steven Antonia Taviani, MD;⁴ Barbara Nesi, PT;⁴ Michael Weinrich,
¹Geriatic Research, Education, and Clinical Center, Department of Veterans Affairs, Baltimore VA Medical Center (VAMC) Baltimore, MD.² Division of Robotics Center of Excellence, Baltimore VAMC, Baltimore, MD.³ Division of Gerontology, University of Maryland School of Medicine, Baltimore, MD.

Community Exercise: A Vital Component to Healthy Aging

JRRD
Journal of Rehabilitation Research & Development
Volume 45, Number 2, 2008
Pages 329–336

Exercise for chronic stroke survivors: A policy perspective

Community-Based Adaptive Physical Activity Program for Chronic Stroke: Feasibility, Safety, and Efficacy of the Empoli Model

Mary Stuart, ScD, Francesco Benvenuti, MD, Richard Macko, MD, Antonio Taviani, MD, Lucianna Segenni, MD, Federico Mayer, MD, John D. Sorkin, MD, PhD, Steven J.

Community-Based Exercise for Chronic Disease Management: An Italian Design for the United States?

Michael Weinrich, MD¹, Mary Stuart, ScD², and Francesco Benvenuti, MD³



Reference site European Innovation Partnership on Active and Healthy Ageing

Action Group A2: Falls prevention and management

Participation in SYN_7: Impact of community-based program on frailty prevention and frailty mitigation



Regione Toscana
Diritti Valori Innovazione Sostenibilità

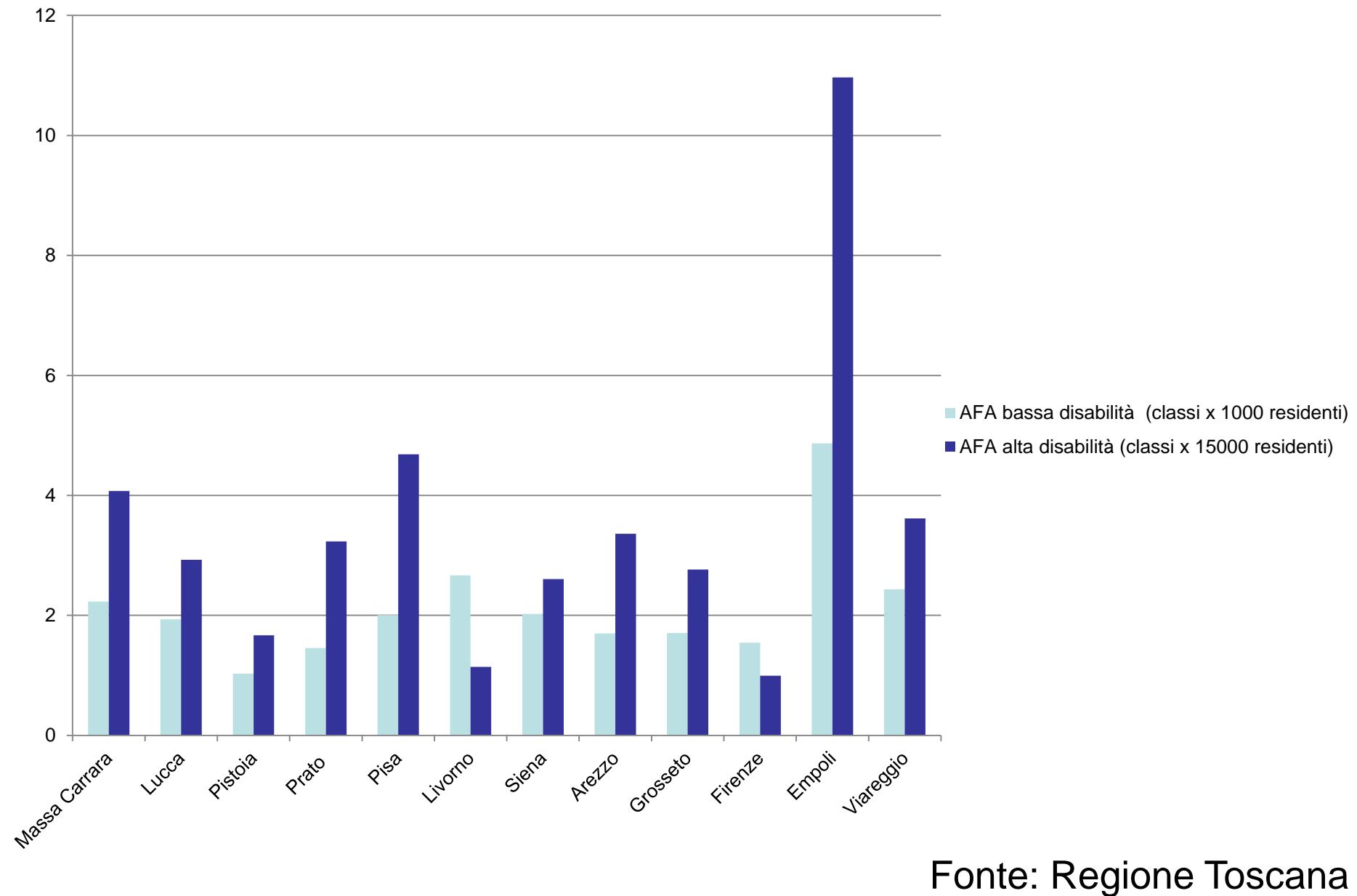
Direzione Diritti di Cittadinanza e Coesione Sociale
Settore Organizzazione delle Cure e Percorsi Cronicità

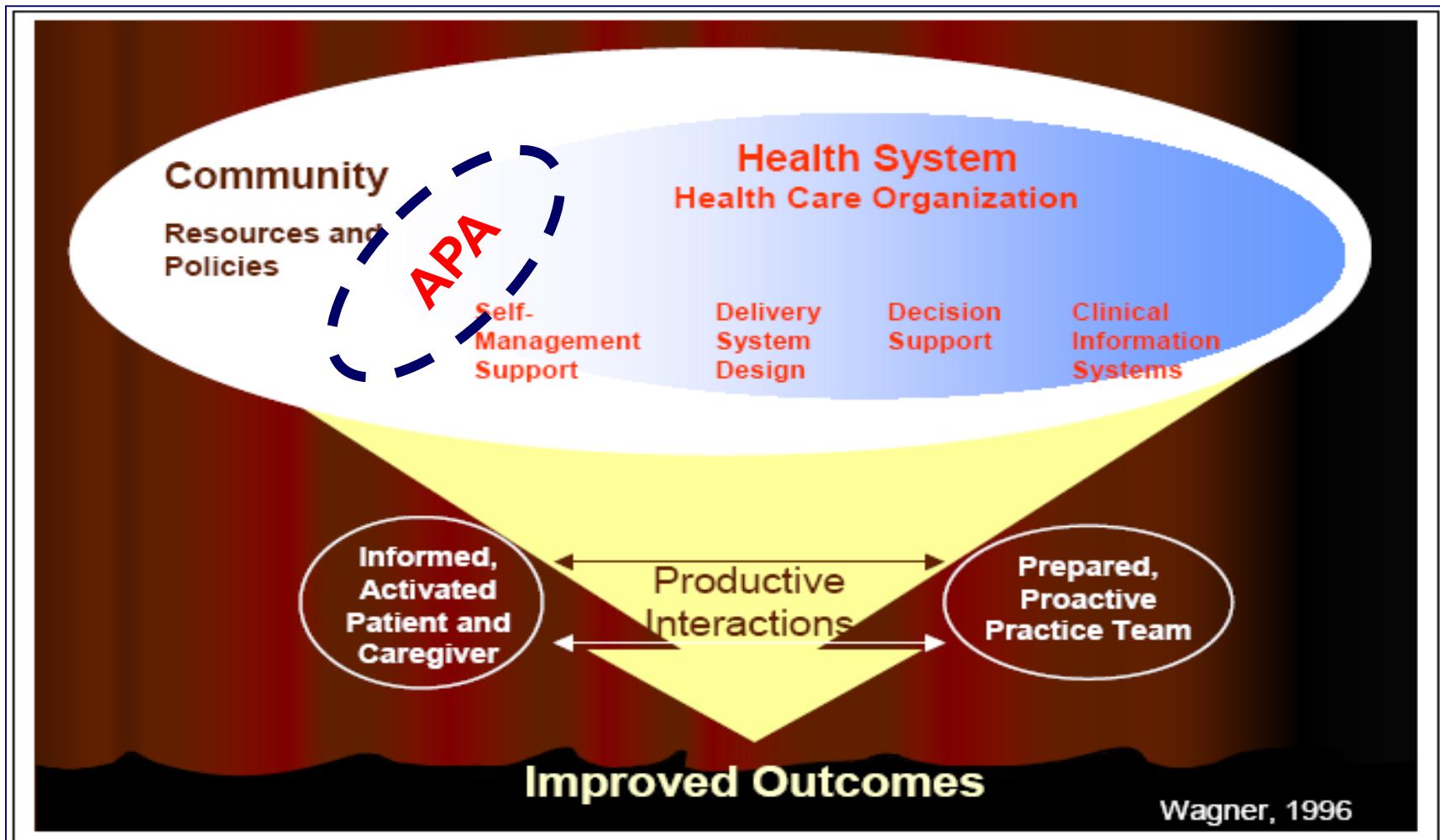
Summary

- Bridge evidence to practice
- Promote a collaborative environment
- **Prepare the future**



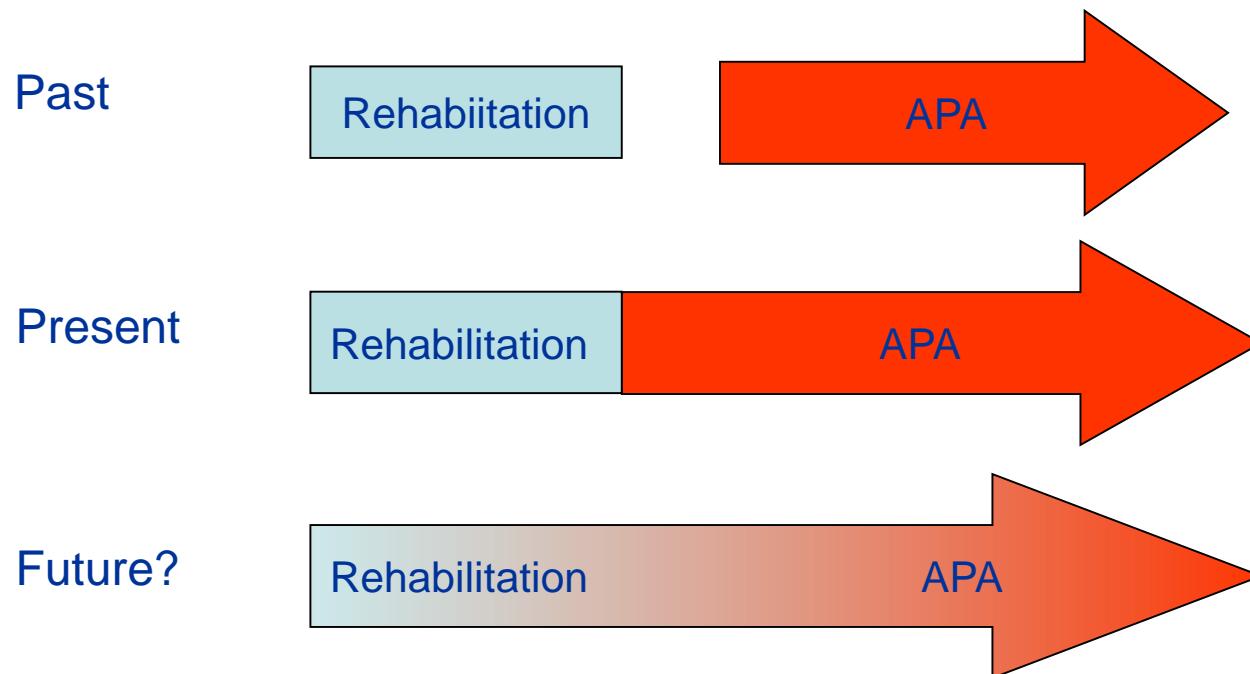
APA Variability among Health Authorities (2016)





DGR 650/2016

Continuity with Rehabilitation





ESTRATTO DAL VERBALE DELLA SEDUTA DEL 25-05-2015 (punto N 38)

Delibera

N 693

del 25-05-2015

Proponente

LUIGI MARRONI

DIREZIONE GENERALE DIRITTI DI CITTADINANZA E COESIONE SOCIALE

Pubblicita'/Pubblicazione Atto soggetto a pubblicazione su Banca Dati (PBD)

Dirigente Responsabile EMANUELA BALOCCHINI

Estensore PIERGIUSEPPE CALA'

Oggetto

Approvazione Piano Regionale della Prevenzione (PRP) 2014-2018.

Project #18: Adapted Physical Activity revision of:

*exercise programmes



DRG 1418/ 2016

*regulations

DGR in progress/2017

Project #19: Implementation of Otago Exercise Program for preventing falls in frail elderly population



Thank you!

andrea.sanquerin@regione.toscana.it
francesco.benvenuti@uslcentro.toscana.it

