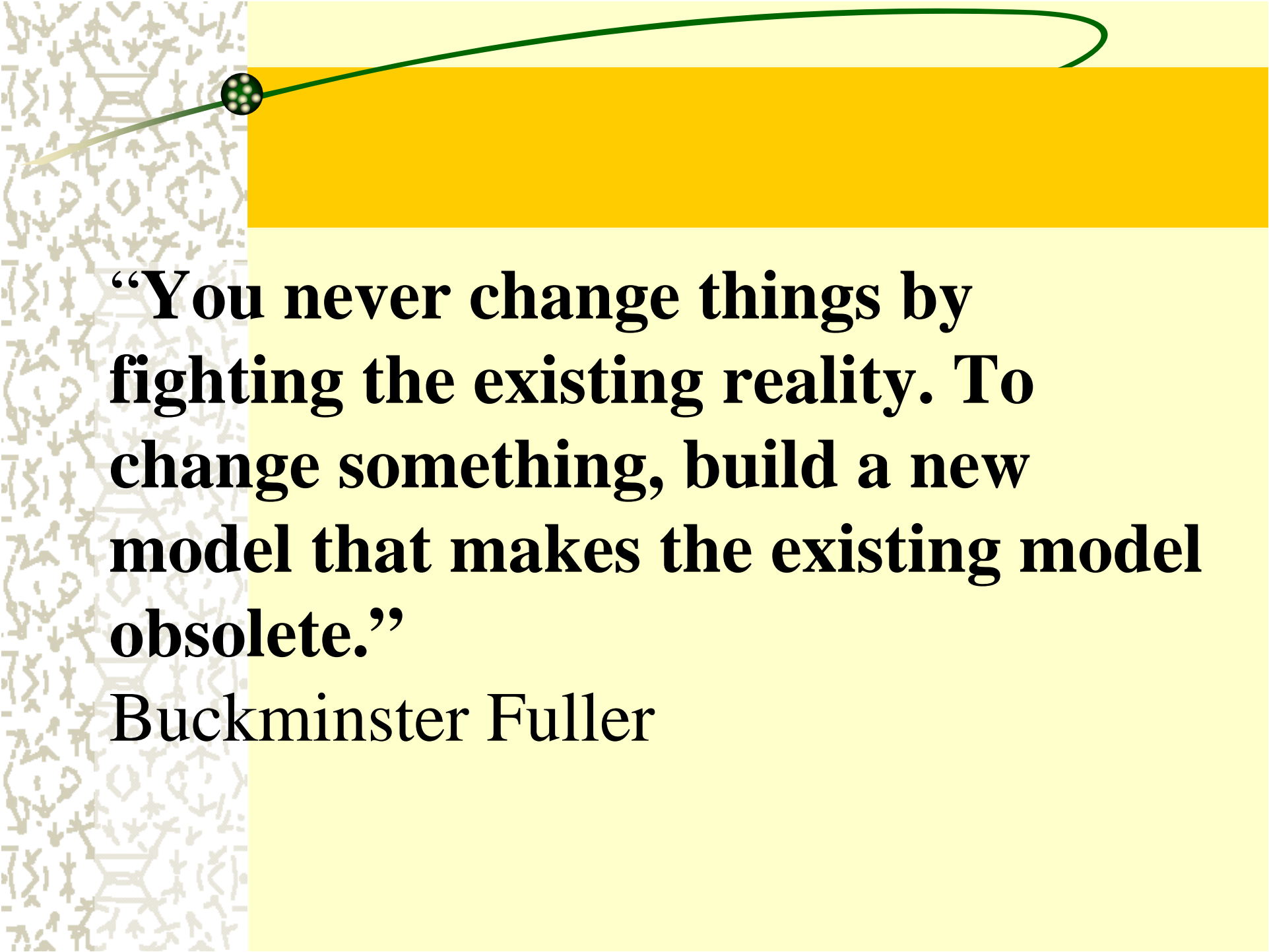


CHALLENGE:

TO REDUCE MALNUTRITION

Change of paradigms:

**From clinical treatment
approach to prevention**

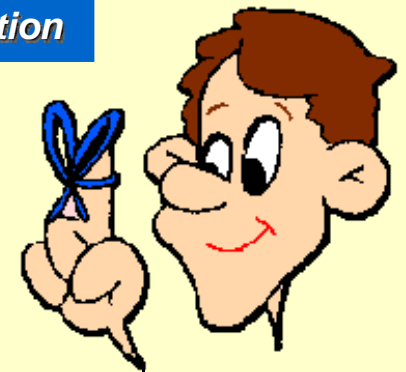
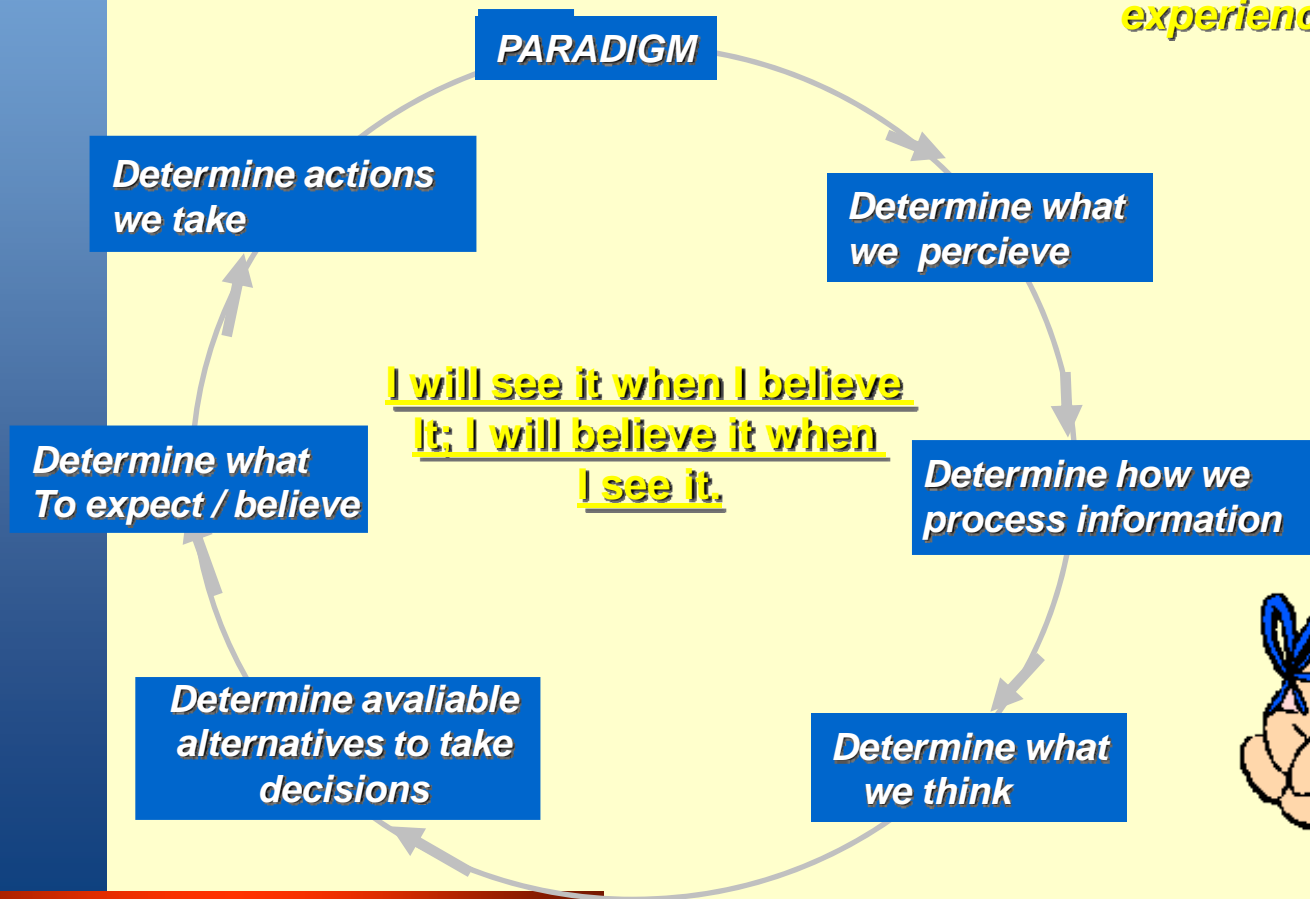


“You never change things by fighting the existing reality. To change something, build a new model that makes the existing model obsolete.”

Buckminster Fuller

PARADIGMS

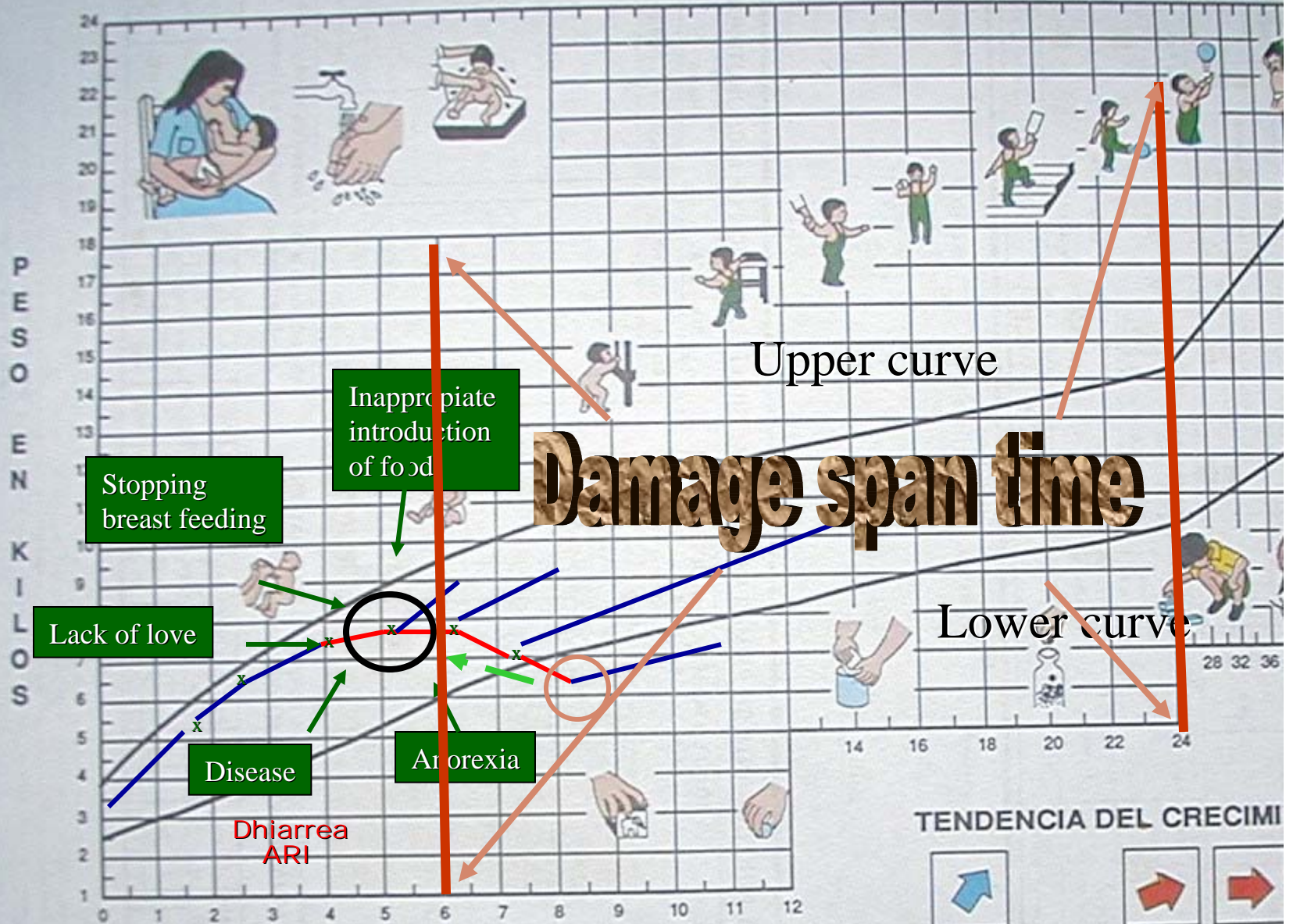
A set of comprehensive ideas, theories, beliefs, feelings, values and affirmations that give sense to our experience.



**HOW DO WE CHANGE
CURRENT PARADIGMS
FOR REDUCING
MALNUTRITION?**

**How the malnourishment
process happens and when
is the right time to act!**

GRAFICA DE CRECIMIENTO Y DESARROLLO DEL NIÑO Y NIÑA



PESO AL NACER [] [] [] g.

Changing old paradigms: Develop a new set of paradigms according to the new approach

OLD PARADIGM:

Malnourishment is a status, a state of being



A child is malnourished when his weight or height/age point is under the third percentile

So, malnutrition has been defined as a state, a static situation, a point in the growth chart

NEW PARADIGM:

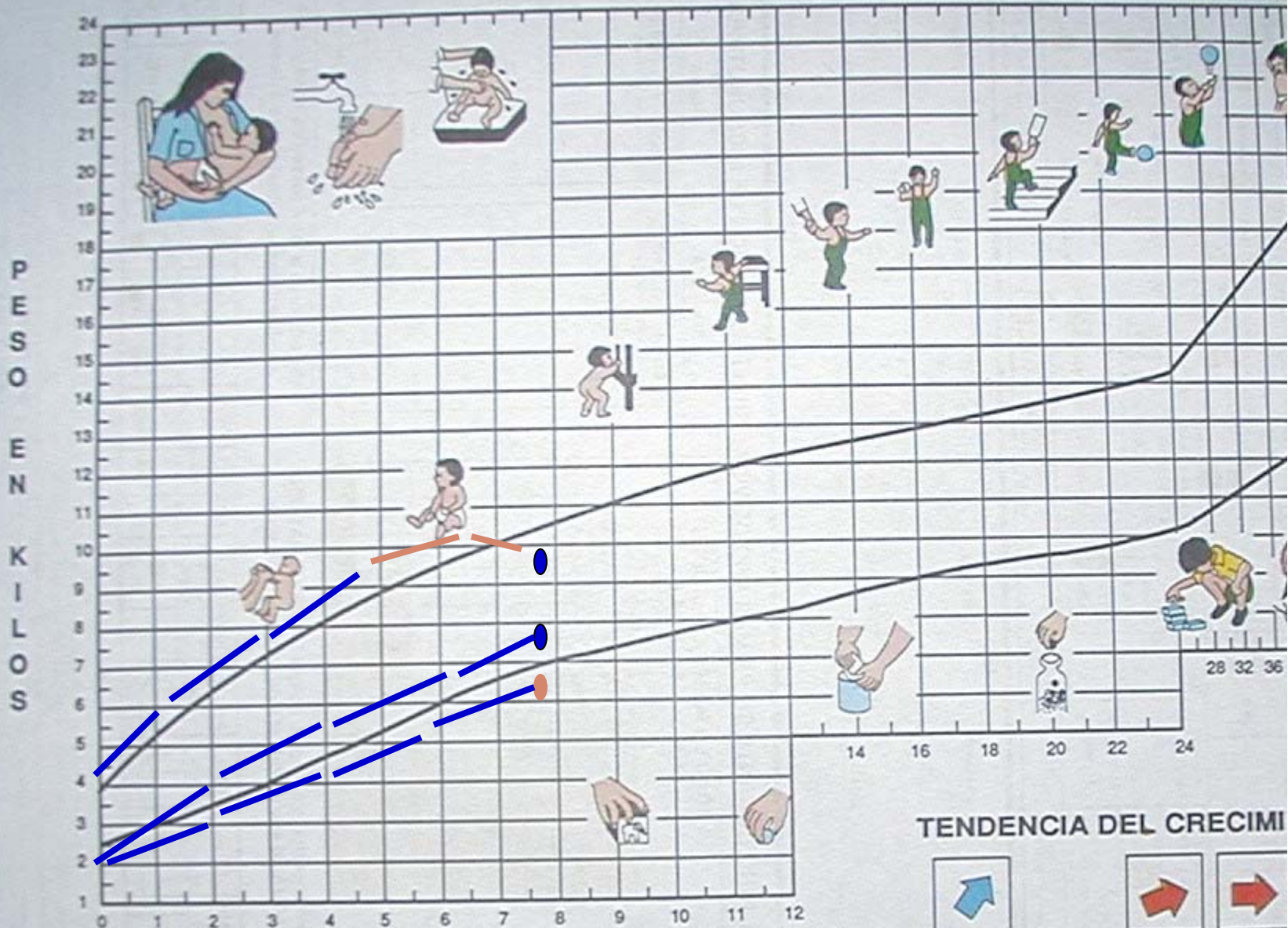
Malnourishment is a process, a tendency



A child is starting to be malnourished when he/she is not gaining the expected weight




This applied no matter where on the growth chart the point is. Growth monitoring of an individual child is based on his/her own pattern

GRAFICA DE CRECIMIENTO Y DESARROLLO DEL NIÑO Y NIÑA



PESO AL NACER [] [] [] g.

TENDENCIA DEL CRECIMIENTO

MUY BIEN PELIGRO

Changing old paradigms: Develop a new set of paradigms according to the new approach

OLD PARADIGM:

Childhood malnutrition is always (or very often) a problem of lack of food in the home

When a child is malnourished it is assume that his/her family is poor and does not have the money to buy food, nor the capacity to produce it

So, the solution is give and/or produce food to solve the problem

NEW PARADIGM:

Lack of food in the home is not the (main) cause of childhood malnourishment

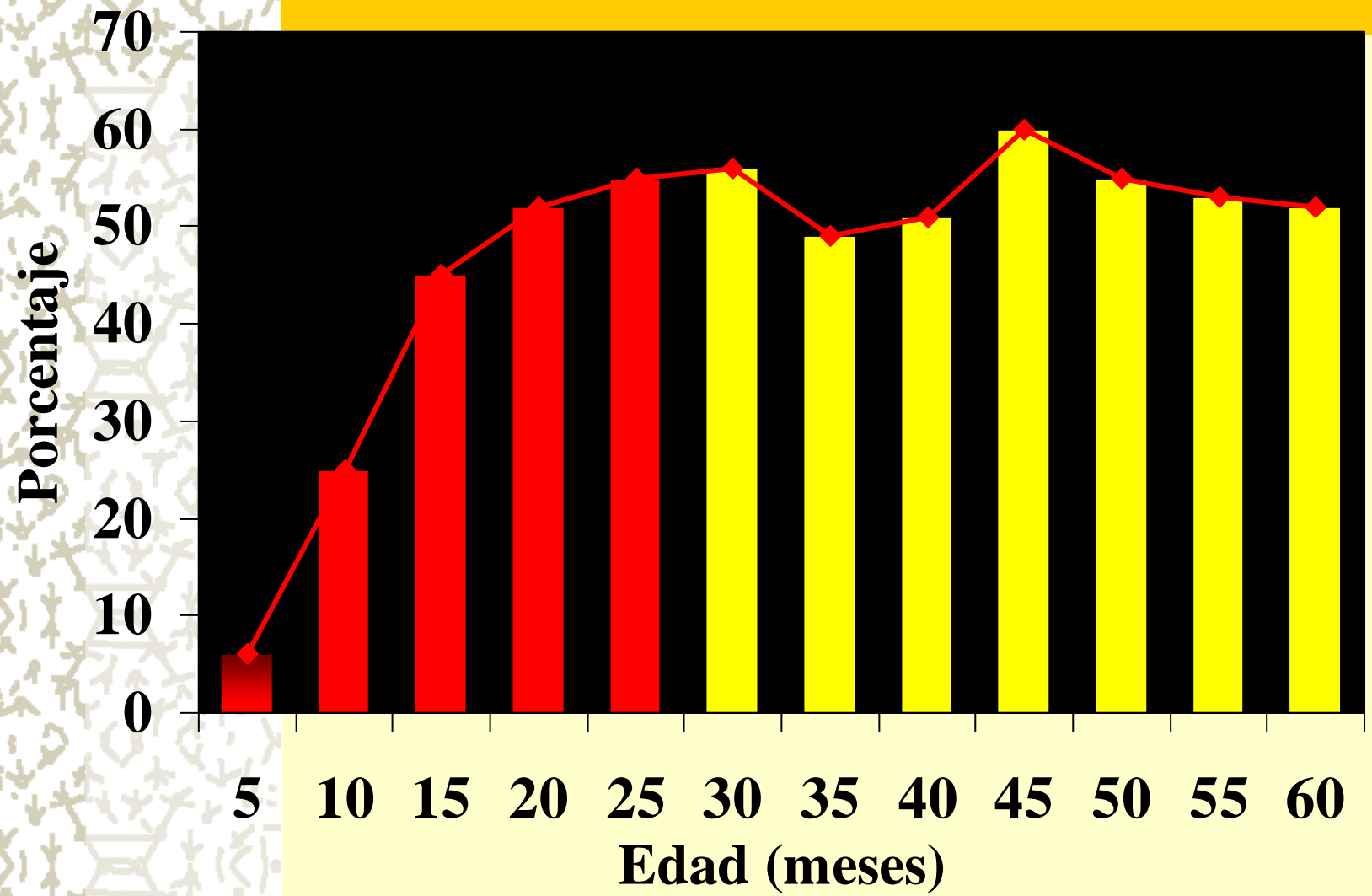


To be poor means lack of knowledge

UNICEF has estimated more than 50% malnourishment children is not a problem of food in the home

So, a child not growing well, the problem is not lack of food until the opposite is demonstrated

Talla/edad



Changing old paradigms: Develop a new set of paradigms according to the new approach

OLD PARADIGM:

Detection of malnourished children, especially severely affected (III Grade)

Treat them through conventional clinical disease approach

Donate food/Promote family food production

NEW PARADIGM:

Childhood malnourishment is not only a problem of food in the home



Detect children with adequate growth or early growth faltering

Educate the mother how to produce healthy growth and correct the incipient malnutrition using available resources

Changing old paradigms: Develop a new set of paradigms according to the new approach

OLD PARADIGM:
Priority are children less than 5 years old



Older children severely malnourished are the priority

NEW PARADIGM:
Priority are children less than 2 years old, especially since the first six months



Malnourishment is an 18 month process occurring from the 6th to the 24th month of age

Correction of growth faltering is easier at the start

PARADIGM CHANGE

FROM FOOD TO KNOWLEDGE

Food/resources

Enough

Not
enough

Knowledge

Appropriate

Not
Appropriate

++

+ -

- +

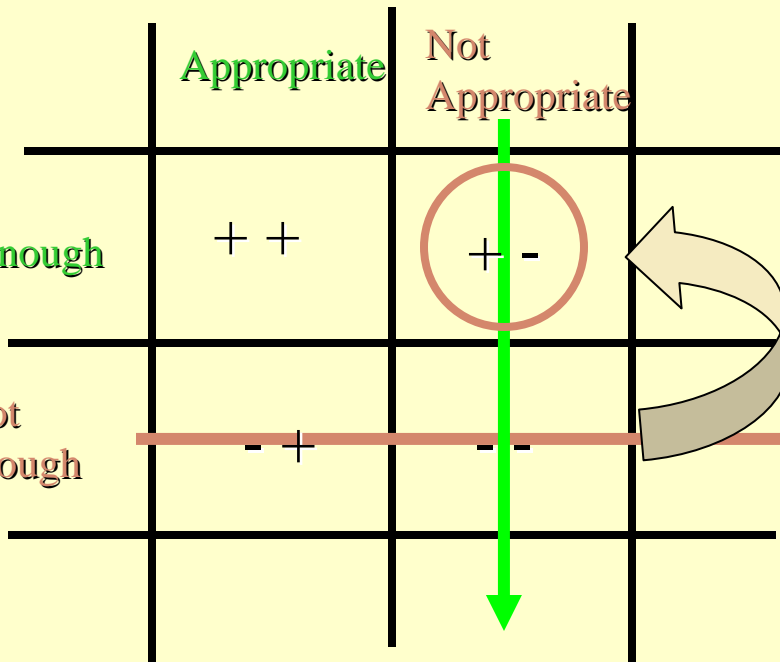
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Solutions:

1. Education/behavior change
2. Prevention

Solutions:

1. Donate/give food
2. Clinical malnourishment treatment



INTERESTING PARADOXES

During many years we have talked how to alleviate world hunger!!

However the problem is that the malnourished child is not hungry, on the contrary: **SHE/E IS ANOREXIC.**

And the mother neither recognizes the problem nor knows how to manage it

INTERESTING PARADOXES

**Every body is
talking about
how
to increase food
production to
prevent
malnutrition!!**

**We have found that family with
children less than 2 years old and
not consuming enough food
(calories and proteins per day)
can, with some specific advice,
augment their children intake by
about 300 calories per day with
the already food available in the
home and reach 100% of their
calories and proteins needed.**

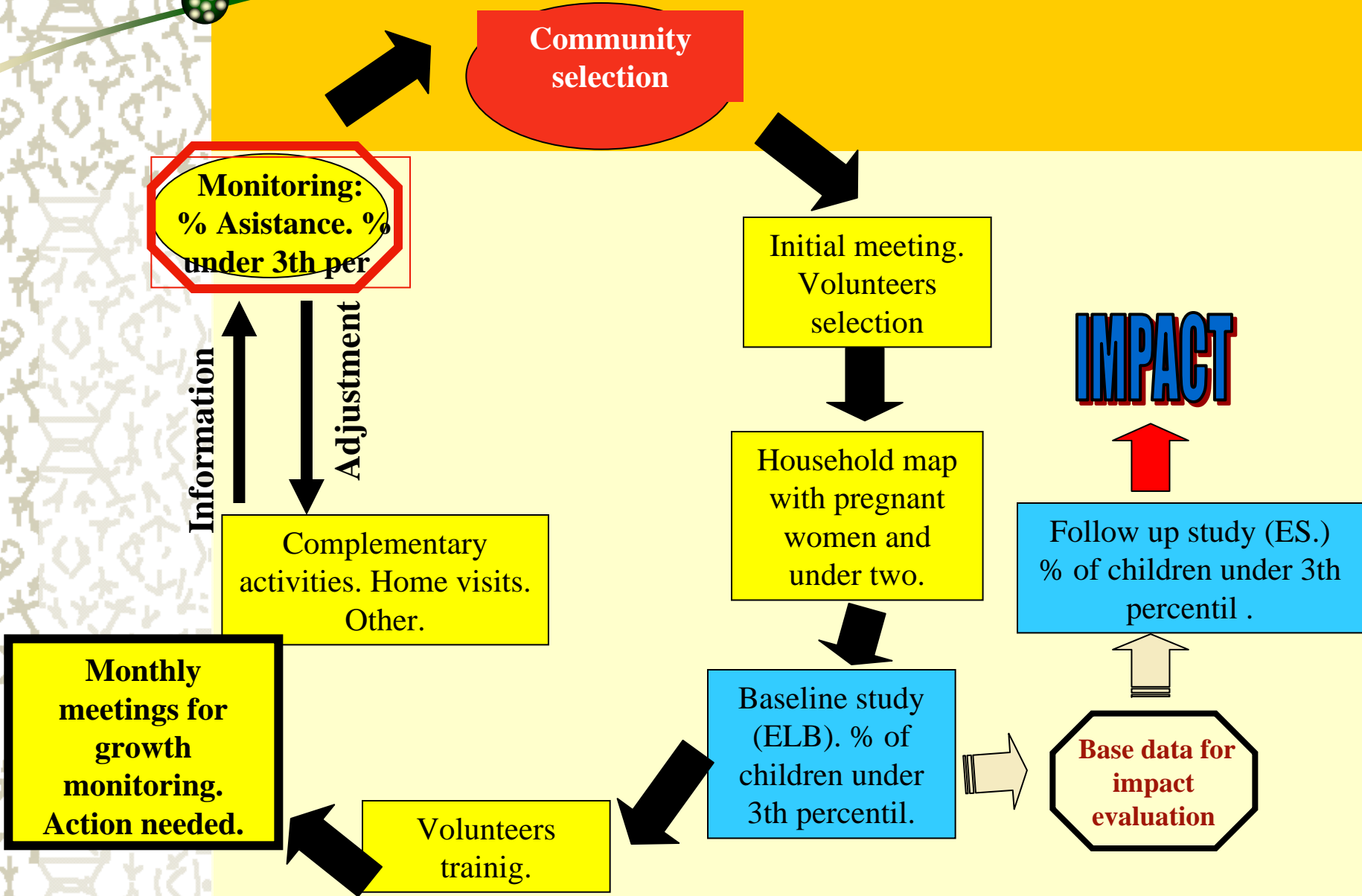


INTERESTING PARADOXES

We have worked in preventing children's death through child survival activities!!

It has been found that the probability of a malnourished child dying of the same diseases we are trying to avoid, is many fold higher even in mild states of nutrition damage

AIN-C. BASIC OPERATIVE MODEL



MONITORING: RESULTS

MONITOR: HEALTH AREAS

MONITORIA

1. % OF ASISTANCE
2. % UNDER 3TH PERCENTIL (WEIGHT/AGE.)



INDICATORS: PROVIDERS/SUPERVISOR

PROCESS AND SURVEILLANCE

- % OF ASISTANCE(2/1)100.
- % UNDER 3TH PERCENTIL (WEIGHT/AGE.) (5/2)100.

EPIDEMIOLOGY SURVEILLANCE

4. % WITH INAPPROPRIATE GROWTH ((3+4)/2)100.
5. % WITH PERSISTANCE INAPPROPRIATE GROWTH(4/2)100.)

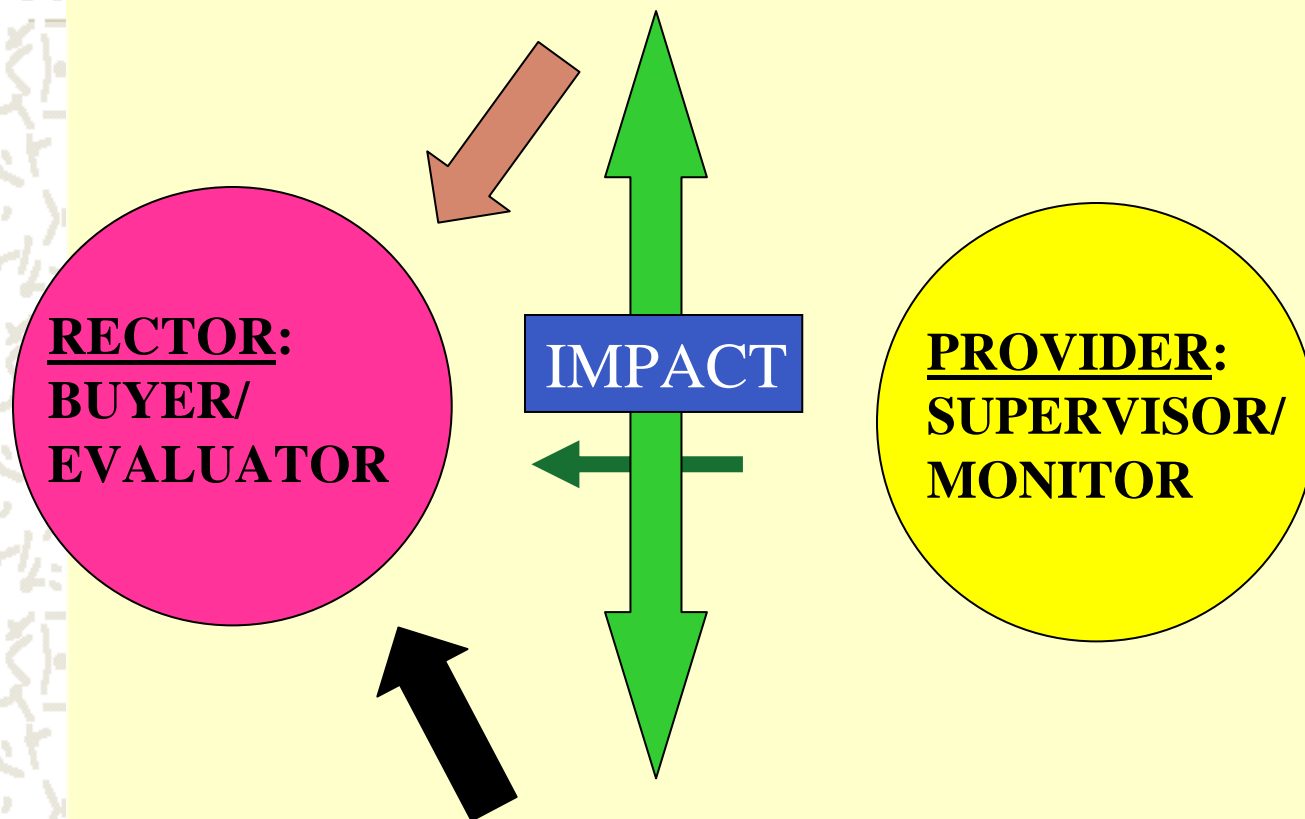
INFORMATION: LOCAL PROVIDER/VOLUNTEER

1. NO. CHILDREN ANNOTATED IN THE REGISTRATION LIST
2. NO. WHO ASISTED THIS MONTH.
3. NO. CHILDREN WITH INNAPPROPRIATE GROWTH.
4. NO. CHILDREN INNAPPROPRIATE GROWTH THIS MONTH AND FORMER.
5. NO. CHILDREN UNDER 3TH PERCENTIL

EVALUATION: IMPACT

FOLLOW UP STUDY(ES)

1. % UNDER 3TH PERCENTIL (WEIGHT/AGE.)
2. % UNDER 3TH PERCENTIL (HEIGHT/AGE.)



1. % UNDER 3TH PERCENTIL (WEIGHT/AGE.)
2. % UNDER 3TH PERCENTIL (HEITH/AGE.)

ESTUDIO DE LÍNEA BASE (ELB)

AIN-C INDICATORS

INDICATOR	NAME	DESCRIPTION	NORMAL VALUE	FRECUENCY
IMPACT (EVALUATION)	Heigth/edad	% under 3th Percentil. Studies comparison	3 %	Every three months and one or two years
RESULT (MONITORIA)	Peso/edad	% under 3th Percentil. Studies comparison And regular data	3 %	Every month and one or two years
EPIDEMIOLOGY SUVEILLANCE	Inappropriate growth	No. Inappropriate growth /No. weigthed	0 %	Every month
	Inappropriate persistent growth	Inappropriate persistent growth /No. weigthed	0 %	Every month
PROCESS	Assistance	No. weigthed/ No. anotated	100 %	Every month
	Oportunity	No. Anotated first three month/No. Anotated	100 %	Every month
	Performance quality	Base on quality standars	Specific ranges	Variable
MANGEMENT	AIN-C implementation	% of implementation/ No. programmed	100 %	Every six months or a year



What does “participation intensity” mean?

- Intensity of attendance at weighing/counseling sessions
- Percentage of weighings out of possible 12 per year (or total months of life)
- Non-participants have 0% participation intensity

Additional Z-score increment with increasing AIN-C participation intensity

Index	Each additional month of participation	100% participation
Weight-for-height	0.03	0.4
Height-for-age	0.03	0.3
Weight-for-age	0.04	0.5