	<b>unitron</b> . Hearing matters
The Reconstruction of Audiol Decoupling Service Delivery from Product I	
Brian Taylor, AuD	

#### Who is Brian Taylor?

□22 years experience

□Editor of Audiology Practices

□Author of 3 text books

□With Unitron since 2008



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### Previous AO Courses: Creative Destruction and Strategy

 $\underline{\text{http://www.audiologyonline.com/audiology-ceus/course/creative-destruction-audiology-to-survive-23280}$ 

 $\frac{\text{http://www.audiologyonline.com/audiology-ceus/course/five-key-drivers-customer-intimacy-23735}{\text{http://www.audiologyonline.com/audiology-ceus/course/five-key-drivers-customer-intimacy-23735}{\text{http://www.audiologyonline.com/audiology-ceus/course/five-key-drivers-customer-intimacy-23735}{\text{http://www.audiologyonline.com/audiology-ceus/course/five-key-drivers-customer-intimacy-23735}{\text{http://www.audiologyonline.com/audiology-ceus/course/five-key-drivers-customer-intimacy-23735}{\text{http://www.audiologyonline.com/audiology-ceus/course/five-key-drivers-customer-intimacy-23735}{\text{http://www.audiologyonline.com/audiology-ceus/course/five-key-drivers-customer-intimacy-23735}{\text{http://www.audiologyonline.course}}{\text{http://www.audiologyonline.cour$ 

Creative Destruction	



The Creative Destruction of Audiology?

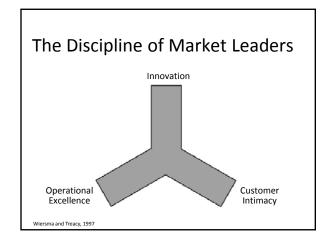


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Joseph Schumpeter 1883 -1950

"All established businesses are standing on ground that is crumbling beneath their feet."





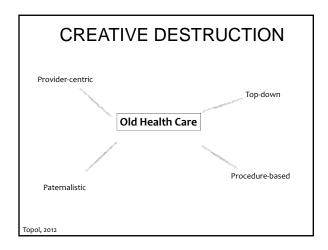
#### **Three Questions**

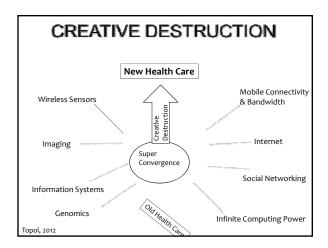
- 1. How has audiology and the marketplace for our services evolved over the past 40 years?
- 2. How does Audiology fit into the evolving healthcare system in the US?
- 3. What do audiologists need to do in order to create value for patients (and revenue for themselves) in this time of change?

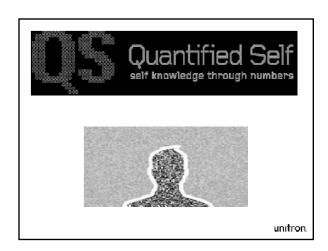
Q1	
How has audiology and the marketplace for our services evolved over the past 40 years?	
	-
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The Analog World 1074 late 1000s	
The Analog World 1974-late 1990s	
☐ Limited Adjustments	
(J-0)	
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The Profession, circa 1974	
1116 1 1616351611) 611 64 25 7 1	
$(A) \Rightarrow (HI) \Rightarrow (A)$	
Audiologist HI Specialist Audiologist	
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The Profession, circa 1974	
Audiologist HI Specialist Audiologist	
Testing Recommendation  Comparative Fitting  Rehabilitation  unitron	
unit of	
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The Digital Revolution	
□ Upgradeable □ Wireless □ Incrementally improving □ Faster □ Smarter	
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The "Tyranny" of the Digital Unit	
☐ Product is the focal point ☐ Product is becoming commoditized ☐ Ergo profession is becoming commoditized (many reasonable substitutes available)	
unitron.	

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The Profession Today	
A/HI A/HI A/HI	
Audiologist or HIS Audiologist or HIS Audiologist or HIS  Testing Recommendation  Manufacturer-Driven Prescriptive Fitting	
unitron	
Q1 How has audiology and the marketplace for	
our services evolved over the past 40 years?	
Audiology has become synonymous with dispensing a device	
The value of audiologists has been substituted by other professions as well as by technology     Consumers have access to an abundance of information	
Consumers have access to an abundance of information, including direct from manufacturers     Today, your brand or reputation can never coast on past performance	
performance	
unitron.	
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03	
Q2	
How does Audiology fit into the evolving healthcare system in the US?	
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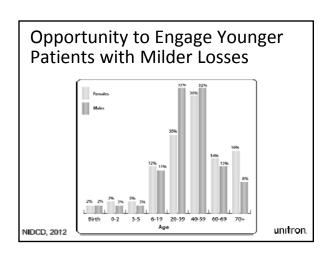


## Modern Healthcare in Evolving Personalized Preventive Pre-emptive Participatory Health Insurance Is Not Health Care

JAMA InterMed, April 7, 2014

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## Pit Crews, Not Cowboys Gawande, 2013

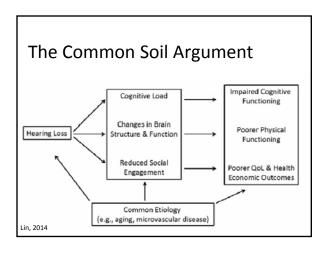


#### More Opportunity.....

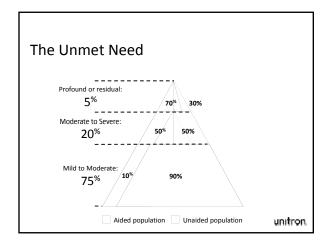
- ☐Age-related hearing loss is being recognized as a public health crisis
- $oldsymbol{\square}$  Rise of Accountable Care Organizations
- ☐Rise of Population-based & Preventive Medicine
- ☐The Quantifiable Self Movement
- ☐PCPs/GPs outnumber Audiologists and HI Specialists 12:1

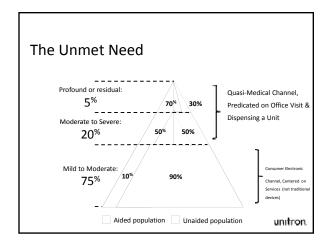
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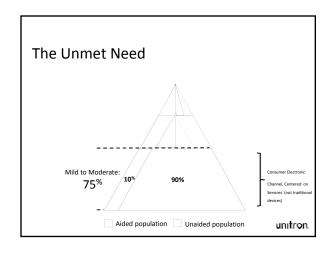
# The Discipline of Customer Intimacy The ability to form deep, long-lasting relationships Community



5 Articles	
Hearing Loss and Cognitive Decline in Older Adults. Lin et al (2012) JAMA Internal Medicine	
Impairments in Hearing and Vision Impact on Mortality in Older People. Fisher, et al (2014). Age and Aging	
3. The Association between Hearing Loss and Social Isolation in Older Adults. Mick et al (2013). Otolaryngology-Head & Neck Surgery	
Hearing Impairment with Depression in US Adult, NHANES 2005-2010. (2014). Otolaryngology-Head & Neck Surgery      Association of boaring impairment with brain unlawed bearing in the control of the	
5. Association of hearing impairment with brain volume changes in older adults. Lin et al (2014) <i>Neuroimage</i>	
Request a copy of these - brian.taylor@unitron.com	
unitron.	
	1
Q2 How is the healthcare system currently evolving? Considerations for audiologists	
evolving: considerations for additionalists	
Educate physicians on the consequences of untreated, age-related hearing loss and some of the chronic conditions that accelerate it.	
Engage patients earlier in the process using self-guiding assessment apps     Think of hearing loss as part of the larger picture how we can help people "age in	
place" and keep their minds sharp, stay active  4. Use advertising that triggers positive engagement with hearing care professionals (see	
Alcock article in file share menu)	
unitron	
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Q3	
Given this constellation of circumstances, how can audiologists create value for patients (and revenue for themselves) in this time of change?	
for themselves) in this time of change?	
Corollary: What can we unbundle from the device?	
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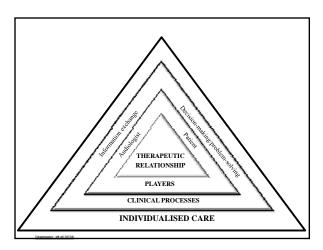
#### Goals

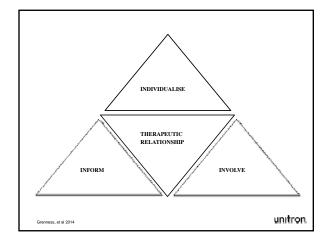
- 1. Attract Younger Patients
- 2. Attract Patients with Milder Hearing Loss
- 3. Provide Service Model that is Less Dependent on Dispensing Traditional Device
- 4. Find Unique Value Proposition that is not easily Duplicated by Other Professions

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#### **Decoupling Service from Device**

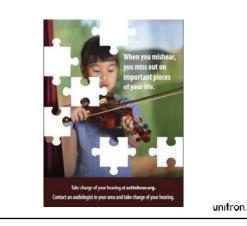
- 1. Engage people early
- 2. Let patient's perception of problem (not audiological assessment results) guide decisions
- 3. Complete a Functional Assessment, using Motivational Interviewing
- 4. Provide Goal Planning focus on behavior change
- 5. Use journaling as an means to measure success
- 6. Charge for Service (unbundle)





#### 5 Steps to *Individualizing Care*

1. Engage people at an earlier age in the process of hearing screening



## Screening Kiosks and Apps iPhone Screenshots What is the school of the Committee of the C

Provide Readily Consumer Information Link education, advocacy and review sites to Example: Hearing Tracker	mation	
Profes Sectory  The sector of	Redisplatations	 nitron.

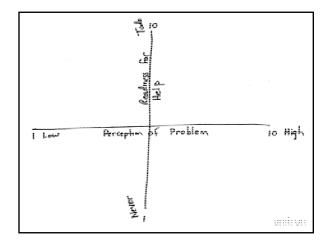
#### 5 Steps

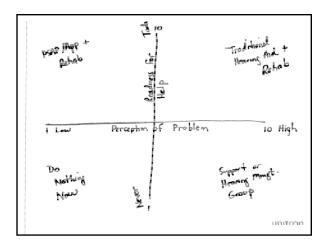
- 1. Engage people at an earlier age in the process of hearing screening.
- 2. Assess the individual's real-life communication difficulties
  - √ Functional Communication Assessment
    - ✓ Less Reliant of Audiogram Results

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Skills/Tools Needed	
☐Motivational Interviewing	
☐Scaling Questions	
☐Goal Planning and Assessment	
addar raming and Assessment	
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Basic Principles of MI	
□ Collaborative: Active collaboration in identifying specific areas where behavior change	
in needed	
☐ Evocative: Connecting behavior change to what the patient values or cares about.	
☐ Honor patient autonomy: Patient is responsible for course of action	
Sources:  1.Motivational Interviewing in Healthcare, Rolinick, Miller & Butler	
2.1001 Solution-focused Questions, Bannick     3. Basic Counseling Technique, Perry	
4. Motivational interviewing & Amplification, Beck et al (see attachment)	
Two Tasks of MI	
TWO TUSKS OF IVII	
Colf Descrition of Handisanning Condition /how had in it?	
□ Self-Perception of Handicapping Condition (how bad is it?)	
☐Willingness to Receive Help (How ready are you to change?)	
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	<b>.</b>
Perception of Handicap –	
Scaling Question	
"On a scale of 1 to 10 , 1 being the worst and 10 being	
the best, how would you rate your overall hearing	
ability?"	
Palmer, et al JAAA, 2009 unitron.	
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Developt 4: 0.40 metics	
Bucket 1: 8-10 rating	
Provide educational information	
☐ 15% of patient population	
Add them to a patient recall list	
☐ Direct them to your website	
☐ Trial with a PSAP or "app"	
<b>П</b> Ппагмин а РЗАР от арр	
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Bucket 3: 1-5 Rating	
☐ 50% of patient population	-
☐ Move more quickly into the hearing aid selection	
process	
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	<u>-</u>
Bucket 2: 6-7 rating	
☐ ~33% of patient population	
☐ Need more information prior to making a decision	
Offer for them to test drive bearing side (Flourtrie)	
☐ Offer for them to test drive hearing aids (Flex:trial)	
unitron.	
	,
Readiness to Receive Help	
1. Precontemplation (denial of problem, disengaged)	
2. Contemplation (aware of problem, ambivalent)	
3. Action (ready to acquire healthy behavior)     4. Maintenance (sustained healthy behavior)	
4. Maintenance (sustained ficultity behavior)	
Laplante-Levesque, et al, 2012 unitron.	
Readiness to Receive Help-	
Scaling Question	
"On a scale of 1 to 10, 1 being the not at all ready and	
10 being ready today, how ready are you to move	
ahead with an agreeable treatment option?"	
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#### 5 Steps

- 1. Engage people at an earlier age in the process of hearing screening.
- 2. Assess the individual's real-life communication difficulties
- 3. Provide full assortment of treatment options

	Му Н	earing <sup>-</sup>	Treatme	ent Op	tions	
What is it?	Hearing Aids	Hearing Management Group	Hearing Skills Training	Hearing Assistive Technology	Cochlear implant	No treatment
What is involved?	Buying hearing aids.     Professional adjustment of the hearing aids.     Wearing hearing aids to help with my hearing problems.	Meeting with a group of people.     Learning ways to cope with my hearing problems.     Jusing the information to help me in daily life.	Using a DVD for training at home. Improving my ability to be successful in listening.	Buying 1 or more items that can help me hear better in certain situations.     Using those items in my daily life.	Being evaluated to see if an implant might help me.     Undergoing surgery.     Professional adjustment of the implant.     Wearing the cochlear implant to help with my hearing problems.	Continue my daily life without making any changes.
Cox, 2014						
	e Cor ) Prog		nicati	ion E	ducat	ion
☐ Sup	port gro	up (6 tc	12 par	ticipan	ts)	
☐ 2 hc	our per v	veek ov	er 5 we	eks		
fac	ractive, ilitator ( us on be	audiolo	gist)		ion lead change	by
SUg	gests AC	F is alte	rnative	or sur	g blinding pplement on, et al, 2	to
5 Ste	ps					
1. Eng	age peop	ple at ai screenir	n earlie ng.	r age ir	the pro	cess
	ss the in culties	dividua	l's real-	life co	mmunica	tion
3. Prov	ide full a	ssortm	ent of t	reatme	ent optio	ns
4. Facil	itate de	cision-n	naking	proces	s and mg	gmt
•						unitror

What is it?	Hearing Aids	Hearing Management Group	Hearing Skills Training	Hearing Assistive Technology	Cochlear implant	No treatment
What is involved?	Buying hearing aids.     Supering aids sectional adjustment of the hearing aids.     Wearing hearing aids to help with my hearing problems.	Meeting with a group of people.     Learning ways to cope with my hearing problems.     Using the information to help me in daily life.	Using a DVD for training at home. Improving my ability to be successful in listening.	Buying 1 or more items that can help me hear better in certain situations.     Using those items in my daily life.	Being evaluated to see if an implant might help me.     Undergoing surgery.     Westing the containing the containing the containing the cochlear implant to help with my hearing problems.	Continue my daily life without making any changes.

Provide	pros	and	cons	and	ask:
---------	------	-----	------	-----	------

- 1. Which one of these options would be a good place to start?
- 2. Let's set some goals.....

		Soal Planning for Hearing Rehabilitation
	Name	Therapeutic Approach:
	Apri	Time Frame:
	Gost#3:	
	Strengths:	Needs:
	Goel#2:	
	Goel#Z	
	Strengths:	Needs:
	Gosleti:	
	Strengthor	Needo
McKenna, 1987		

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Sand Manager 6	or Hearing Rehabilisation
Name: Ed Healy	Therapoulis Approach: ACE Time Frame: 60 days
Godff: To become more activel	ly involved in family conversations at home
Strengths:	Needs:
Supportive family Willingness to change behaviors & following directives, coaching GREEZ To actively participate is Seeignes Supportive friends	Improve over-estimating behavior  Ask for clarification  a conversations in social situations  needi:  Find 3 ways to ask strangers to clarify message
☐ Ability to find "quieter" spot in resta	purants
Strengths	Needs

Strategy	Description	Health Goal
Put money in a deposit contract	Forfeit money by failure to achieve a specific goal by a given date (eg, quitting smoking within 6 mo, losing 5 lb within 2 mo)	Any
Engage in temptation bundling	Restrict access to instantly gratifying experiences (eg, watching TV) only to occasions when engaging in goal-consistent behaviors (eg, exercising)	Any
Purchase vices in small packages	Limit portion sizes for unhealthy Items (eg, cigarettes, Junk food, alcohol)	Reduce consumption
Purchase small plates	Limit food portion sizes	Reduce consumption
Order groceries online	Avoid purchasing unhealthy foods on impulse	Improve diet
Take disuffiram	Ensure that drinking alcohol in the future will cause illness	Treat alcoholism
Seek care at a treatment center	Ensure no access to addictive substances (eg. alcohol, drugs) until professionals deem a patient ready	Treat addiction
Purchase an annual gym membership	Ensure future gym visits will not require out-of-pocket payment	Increase exercise
Schedule workouts with an exercise partner	Disappoint a friend by failure to visit the gym	Increase exercise

#### 5 Steps

- 1. Engage people at an earlier age in the process of hearing screening.
- 2. Assess the individual's real-life communication difficulties
- 3. Provide full assortment of treatment options
- 4. Facilitate decision-making process
- 5. Follow-up, document and advocate

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F	ilex:trial Patient ournal	Day 1  Liter may have differ we at the least control of the studies when the least problem and the problem and the least problem and	abuneto we effective interved uses cost to lanch with uses to the lanch with uses the instruments left about of th baseing the TV from a the total state of the total state and total state of the total state of the total state of the total state of total state of the total state of total sta		
un	tron Hearing matters	when I press the buttone, the beaps mean? They are very comfortable			
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Pi	atient Journali	ng			
□l app	eads to higher level of enga pointments according to pat	gement during the fient (unpublished d	follow-up ata)		
	Measures some of the more	subtle benefits of h	earing aid use		
			unitr	on.	
					٦
	The following questions inquire about and listening in different situations.  For each question, put a mark, such as a croquestion that runs from 0 through to 10. Pu	oss (x), anywhere on the scale shoutting a mark at 10 means that you	wn against each 1 would be		
	perfectly able to do or experience what is described in the question. Putting a mark at 0 means you would be quite unable to do or experience what is described.  As an example, question 1 asks about having a conversation with someone while the TV is on at the same time. If you are well able to do this then put a mark up toward the right-hand end of the scale. If you could follow about half the conversation in this situation put the mark around the mid-point, and so on.				
	We expect that all the questions are relevan describes a situation that does not apply to y write a note next to that question explaining	t to your everyday experience, but you, put a cross in the "not applical g why it does not apply in your case	if a question ble" box. Please also e		
	Your name:	Today's date	Your age		
	Please check one of these options:	If you have been using	g hearing aid/s,		

		_	
	You are talking with one other person and there is a TV on in the same room. Without turning the TV down, can you follow what the person you're talking to says?		
	Not at all 0 1 2 3 4 5 6 7 8 9 10  Not applicable		
	You are listening to someone talking to you, while at the same time trying to follow the news on TV. Can you follow what both people are saying?		
	Not at all 0 1 2 3 4 5 6 7 8 9 10 Perfectly  Not applicable		
	You are in conversation with one person in a room where there are many other people talking. Can you follow what the person you are talking to is saying?		
	Not at all 0 1 2 3 4 5 6 7 8 9 10		
	You are in a group of about five people in a busy restaurant. You can see everyone else in the group. Can you follow the conversation?		
	Not at all 1 2 3 4 5 6 7 8 9 10		
		_	
	5. You are with a group and the conversation switches from one person to another. Can you easily follow the conversation without missing the start		
	of what each new speaker is saying?  Not at all 0 1 2 3 4 5 6 7 8 9 10  Nor opplicable		
	6. You are outside. A dog barks loudly. Can you tell immediately where it is, without having to look?		
	Not at all 0 1 2 3 4 5 6 7 8 9 10  Not applicable □		
	7. Can you tell how far away a bus or a truck is, from the sound?		
	Not at all 0 1 2 3 4 5 6 7 8 9 10 Perfectly  Not applicable		
	Can you tell from the sound whether a bus or truck is coming towards you or going away?		
	Not at all 0 1 2 3 4 5 6 7 8 9 10 Perfectly  Not applicable   Not applicab		
****		┛.	
	9. When you hear more than one sound at a time, do you have the impression that it seems like a single jumbled sound?		
	Jumbled         0         1         2         3         4         5         6         7         8         9         10           Mort applicable         □          3         4         5         6         7         8         9         10		
	10. When you listen to music, can you make out which instruments are playing?		
	Not at applicable   Not applicable   Not applicable   Perfectly  Perfectly		
	11. Do everyday sounds that you can hear easily seem clear to you (not blurred)?		
	Not of all		
	12. Do you have to concentrate very much when listening to someone or		
	something?		
		<del></del>	

# More on the SSQ Noble W, Jensen NS, Naylor G, Bhullar N, Akeroyd MA (2013). A short form of the Speech, Spatial and Qualities of Hearing scale suitable for clinical use: The SSQ12. International Journal of Audiology, 52(6), 409-12 <a href="http://www.ihr.mrc.ac.uk/products/display/ssq">http://www.ihr.mrc.ac.uk/products/display/ssq</a> unitron. The Reconstruction of Audiology:

## The Reconstruction of Audiology: Final Thoughts

- 1. Offer different service packages for different market segments
- 2. Find new approaches to managing hearing health of younger individuals with milder loss
- 3. Strive to become a Pillar of Your Community
- 4. Unbundle Specific Services (See Windmill for example)
- 5. Broaden scope of practice (See Preminger)
- Hearing aids are means to an end. The end is positive behavior changes and formation of favorable outlook
   unitr

-	SALDE TO PROFESSIONAL SERVICES	<u> </u>			
ASSESSMENT OF BEARING STATUS AND BEARING HANDICAP Discharting, objecting, diagnosting	AUDICUCKE DECISION MARING (audicloget only) Interpreting Australity	TREATMENT AND CRIMERLING (audiologist and patient) Anisting Instructing Countriling			
Transplanner og inner sin finner ytt riter framplant jonder, souther, errette, dentem etc.   Lamen stop steller, errette, dentem etc.   Amen stop steller til begreinligere, dentemak,  mensen, kost, ander societanisk impart fride  komplant, kost, ander societanisk impart frider  komplant, kost, ander societanisk impart  komplant, kost, ander societanisk impart  komplant, kost, ander societanisk  komplant, kost, ander societanisk   **Laktionisk pulminer kommense still kniefer   smedisk in gelensk kommense still kniefer   **Laktionisk pulminer   **Laktionisk	Pragitives at the service of limited master of problems to be settled to such as all mind data and to a primarily be being the one obt is all mind data and to a primarily be settled to the control of t	Posigliforwise  Consenting as remove of the remain, business measures, and presentation of conditionies,  and presentation of conditionies.  Bells inhericates or otherwises of conditionies, and  consenting regarding limited number of psychologics,  educates, controller, social, early controller, educates, controller, and  landschape special power of controller and  landschape special power of controller and  landschape procedure with the public   **Institution procedure with the public  landschape procedure with the landschape procedure  landschape procedure wit			
coupled the property in coupled.  See you expand that you thin who will desire you may be presented to see you will not be not present you got all ended not rever, any project preside the story.  I have by then you shall be presented to see the control of a sea to that the present will associately present as season be resided of season to the coupled to season to the coupled by the younger of the season to see that the season to see the sea	Gataples  Interpretation and motive of multiple intermy/participals  for somes and agreement and multiple some of an  formation and agreement and multiple some of the  formation and agreement and some of the  formation of the sound some of the  formation of  formation o	Gos pies  Consulting on review of multiple inst results, handlage measures, and presentation of conclusions.  A thread of consulting and consulting sections or information of consulting sections or information of commonly section in pulse parents and producing and extensions on extension, words, and per 19 million falling and extensions, controlled producing and extensions on extension, words, and per 19 million falling positions are not produced as a facility of controlled producing and personal produced and produced as a facility of the produced as a facility of the produced and the produced as a facility of the produced and the produced as a facility of the produced and the produced and the produced as a facility of the produced and the produced as a facility of the produc			
Tandribbed patients only charged service less outside of 60-day trial period.  Windmill. 2014					

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What's your Unique Value Proposition	
AGE BRAIN	
Lipectations   upunifures   Placticity	
Hearing Help Seeking	
Preminger, 2014	
"The people who think they are crazy enough to change the world are the ones who do so."	
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unitron.	
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Thanks!	
Brian.Taylor@unitron.com	