

Wamda – Enabling Innovation in Formal Education

Science behind Innovation

NAMES Annual conference
Bursa, Turkey
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Who Am I ?

Shama Al hawawi

The Leader Of Wamda

Introducing Mishkat Interactive Center For Atomic And Renewable Energy (www.mishkat.org.sa)

Facilitator And Informal Learning Instructor



In This Talk, I Will:

- Introduce Mishkat – who we are, our mission, and our activities.
- Introduce the context of the Saudi Arabian education system.
- Discuss why Mishkat values teacher engagement.
- The process of developing Wamda.
- What we discovered – especially learning points.
- Our reflections, and plans for the future.





﴿اللَّهُ نُورُ السَّمَاوَاتِ وَالْأَرْضِ مِثْلُ نُورِهِ كَمِشْكَاةٍ فِيهَا
مِصْبَاحٌ الْمِصْبَاحُ فِي زُجَاجَةٍ الزُّجَاجَةُ كَأَنَّهَا كَوْكَبٌ دُرِّيٌّ
يُوقَدُ مِنْ شَجَرَةٍ مُبَارَكَةٍ زَيْتُونَةٍ لَا شَرْقِيَّةٍ وَلَا غَرْبِيَّةٍ يَكَادُ
زَيْتُهَا يُضِيءُ وَلَوْ لَمْ تَمْسَسْهُ نَارٌ نُّورٌ عَلَى نُورٍ يَهْدِي اللَّهُ لِنُورِهِ
مَنْ يَشَاءُ وَيَضْرِبُ اللَّهُ الْأَمْثَالَ لِلنَّاسِ وَاللَّهُ بِكُلِّ شَيْءٍ عَلِيمٌ﴾

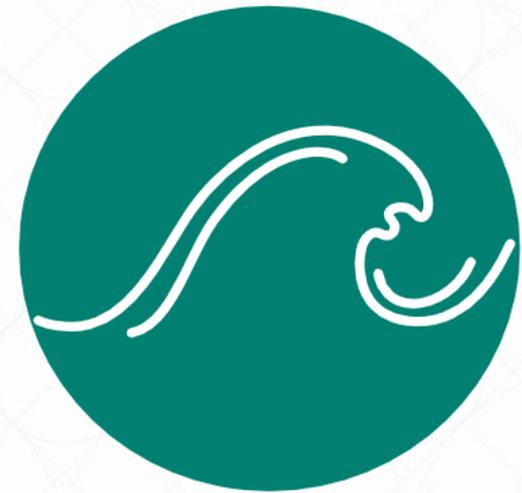
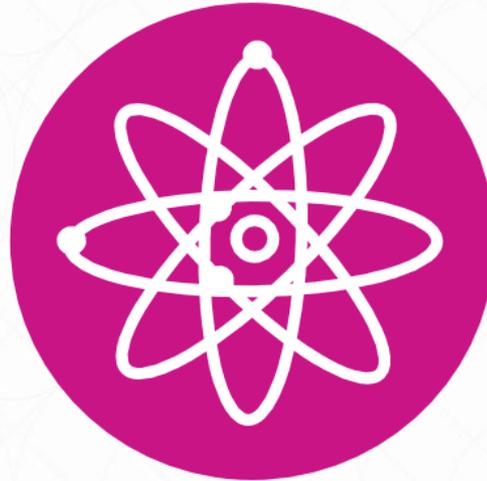
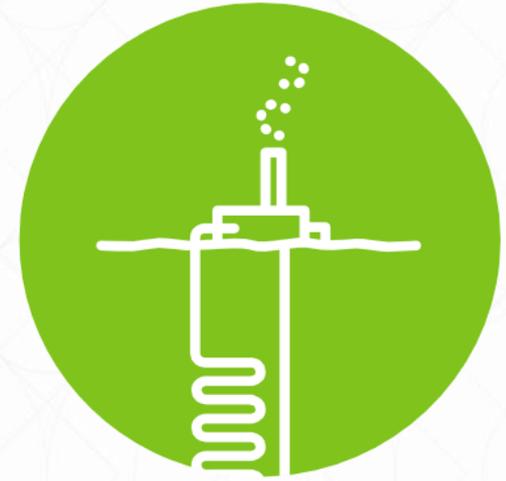
سورة النور- الآية ٣٥

"Allah is the Light of the heavens and the earth. The parable of his Light is as (if there were) **a niche** and within it a lamp is in a glass, the glass as it were a brilliant star, lit from a blessed tree, an olive, neither of the east (i.e. neither it gets sun-rays only in the morning) nor of the west (i.e. nor it gets sun-rays only in the afternoon, but it is exposed to the sun all day long), whose oil would almost glow forth (of itself), though no fire touched it. Light upon Light! Allah guides to Hit Light whome he wills. and allah sets forth parables for mankind, and Allah is All-knower of everything"

Surah An-Nur - Verse 35







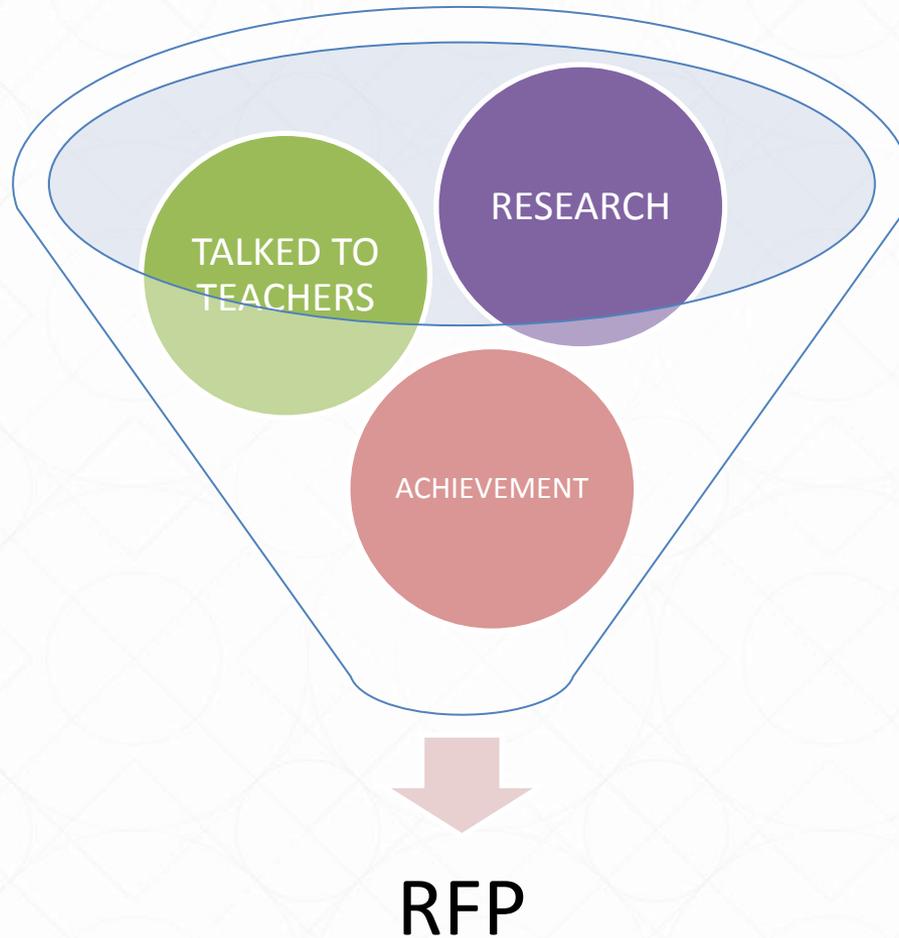




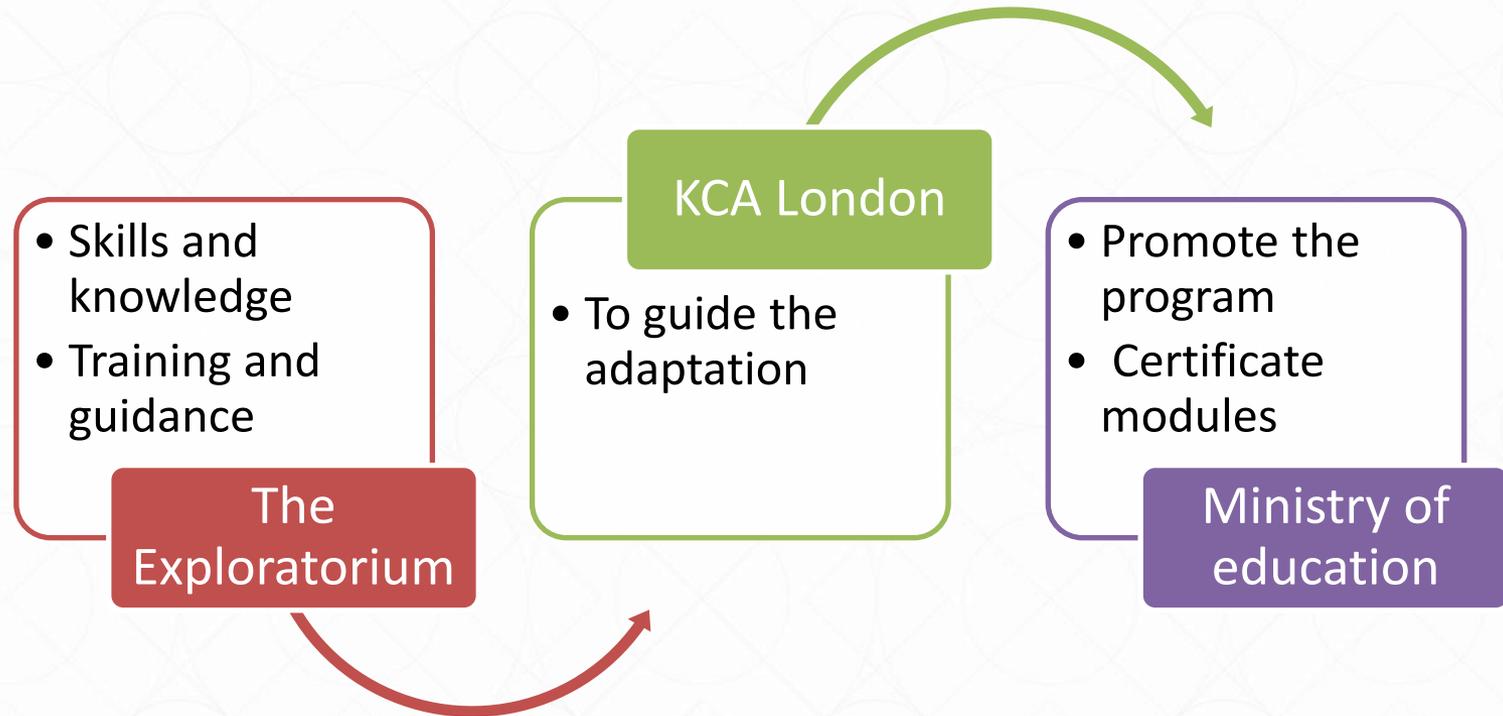
توليد الطاقة المتجددة
توليد الطاقة المتجددة هو إنتاج الطاقة من مصادر طبيعية متجددة لا تنضب. تشمل هذه المصادر الطاقة الشمسية، طاقة الرياح، الطاقة المائية، والطاقة الحرارية الأرضية. تتميز الطاقة المتجددة بأنها نظيفة، صديقة للبيئة، ومستدامة.

مزايا الطاقة المتجددة
تتمتع الطاقة المتجددة بعدة مزايا تجعلها خيارًا مثاليًا لتوليد الطاقة. من أهمها أنها نظيفة ولا تلوث البيئة، كما أنها مستدامة ولا تنضب. بالإضافة إلى ذلك، فإنها توفر مصدرًا موثوقًا للطاقة على المدى الطويل.

How Did We Create Mishkat's Teacher Training Program?



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ومضة

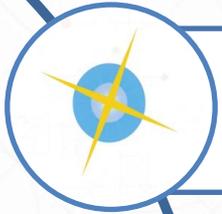
البرنامج التفاعلي لتبسيط علوم الطاقة



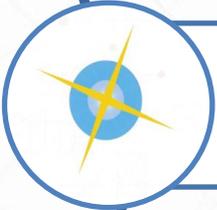
مدينة الملك عبد الله للطاقة
الذرية والمتجددة KA-CARE



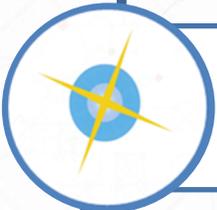
What is Wamda ?



Focused on middle school teachers.



Four hour long sessions.



Session has different energy related themes.



Packed with hands on activities.





What is Wamda ?



Sessions are gender divided.



All of the activities use easy to find materials.



Set up an online portal .



What our teachers said about Wamda !



- “We **really need** such a program in order to easily deliver the required information to our students through **simple experiments**”
- “Easy provision of tools from the house and **everyday life**”
- “The workshop was **wonderful** and **unconventional**, better than I imagined”



Some Surprises, And Challenges!



- Nominated by the ministry of education.
- Not fully orientated to why they were attending.
- Completing the activities .
- The **biggest challenge** was the engaging in the online portal .
- They did not check their Emails.
- The request to attend all of the sessions .



Changes to Wamda



Wamda's brochure

- Presence of wamda on our website.
- Created a brochure to orientate teachers .
- Added more activities to the sessions.
- Redesigned the portal to make it more accessible.



Changes to Wamda

- We are working on making our participating teachers feel like they are in a **community**:

- ✚ Permanent discounts in our energy store shop.
- ✚ Invitations to special events.
- ✚ Opportunities to book their school group.



Planning For The Future...



- To be a national project.
- To trial technologies like video conferencing.
- To train primary and secondary school teachers.



Top Tips

From Our Early Experience, Our Top Tips Are:

- Research different models, and talk to project owners.
- Build capacity and experience through training and ongoing mentorship.
- Take ownership – it'll need to be adapted to be culturally relevant, and support your own individual mission.



Top Tips

From Our Early Experience, Our Top Tips Are:

- Have the support of local authorities, who can bring credibility to the program and reach to teachers.
- Position the offer in a way that is relevant and inspiring for teachers.
- Be confident with the materials and tools you are using for the activities.
- Trial, evaluate, adapt – and repeat again, and again!



Thank you!



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مدينة الملك عبد الله للطاقة
الذرية والمتجددة KACARE

