# JAPANESE KNOTWEED

# Putting the Brakes on a runaway problem

APSE Parks & Horticultural and Grounds Maintenance Advisory Group

> Sean Hathaway Environment Officer City and County of Swansea



6/12/16



- Defining the problem
- The importance of survey data
- Developing a plan of control



## **Defining the problem**

Sally Rhubarb RES UTRE Pysen saet Super Weed Buster (pea shooter) Tigers Walking Stick March of the Mari waedlyd Triffids (bloody Mary) EIRSARIM Donkey Rhubarb The Knot Cracker

### Spread

 Bought back to Europe as an; ornamental, fodder and as slope stabiliser (Thunberg and von Siebold)

•Kew Gardens records from early 1800's

- 1886 naturalised at Maesteg
- •1902 first Swansea (Glamorgan) record
- •1970 first known official complaint in Swansea



"This blighted area lives at Swansea's front door..." (R. Huws Jones, 1961)

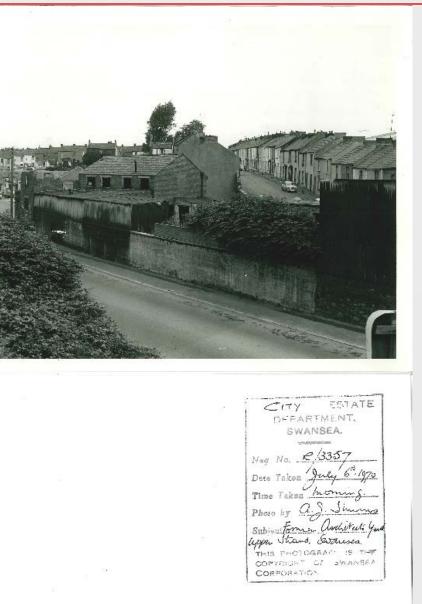
SC TRUE A BOARD

### Mynydd Bach Chapel Pre 1907



MYNYDDBACH CHAPEL

#### The Strand 6/7/1970



## Swansea Bay



### Three Cliffs Bay, Gower AONB



#### Reed bed



## 6500m<sup>2</sup>



#### Inside bathroom



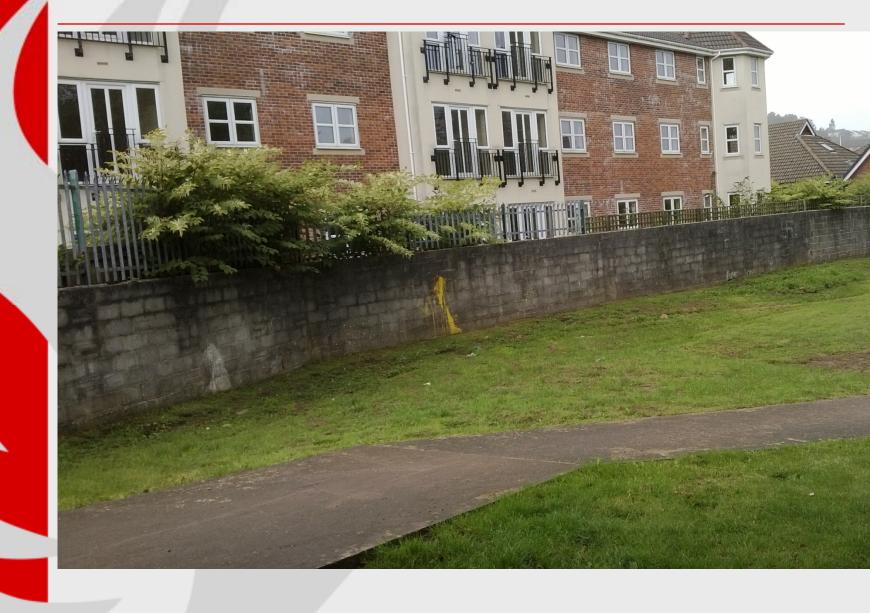
## Inside library



### Council land bank, Development Sites



### For Sale



#### **Designated sites**

#### SSSI-Pwlldu Head/Cliffs. SAC-Limestone Cliffs. Common Land-Pennard Cliffs. National Trust land.

SAC-Ash Woodland. Ancient woodland.

**Right** o

SSSI-Caswell Bay. CCS land. Private land. PROW.

acce

LNR-Pwlldu Cliffs +

Sec 15 agreement.

**Gower AONB** 

Green Coast Award. Heritage Coast.



Costs

#### St Joseph's School

£59,500 to remove soil with knotweed
£13,000 to remove soil without knotweed
Increase of £46,500 due to presence of knotweed.

PLUS additional costs	of ( <b>in bold</b> )
•Armater panels	260m2
•Geosynthetic liner	366m2

•Geosynthetic liner 366m2 •Geomembrane 125m2 •Membrane Protection layers

Total (Inc vat, delivery, installation)

£3377

£1625

£1010

£230

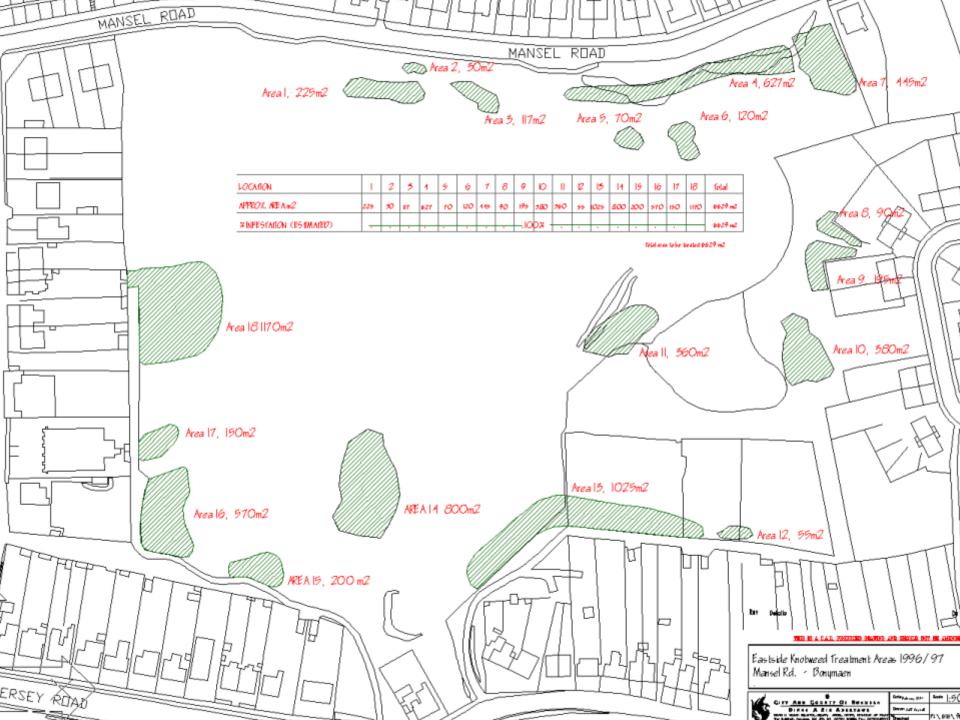
£512

### Importance of survey data

#### A Site Survey

- •Entrance/exit
- Access routes
- •Boundary physical eg walls, fences
- •Boundary legal/political eg land ownership
- Waste, tipping
- Storage, surcharge
- •Riparian zones/watercourses
- •Habitats eg woodland, wetland
- •Services eg sub stations, pumping stations
- Disturbed areas





#### The Surveys

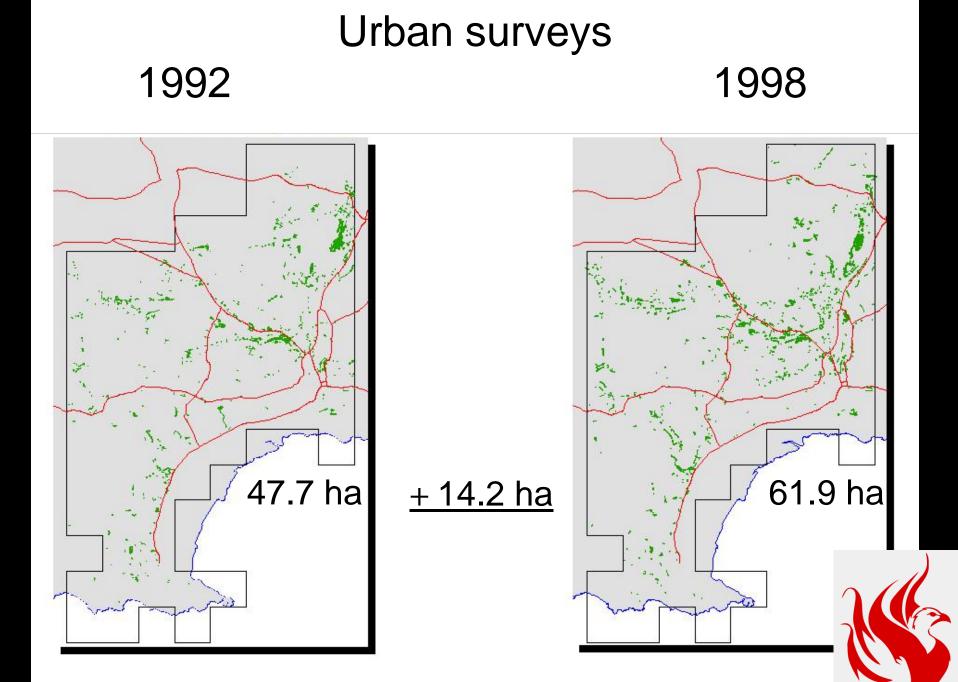
1992 Urban 96km<sup>2</sup> •47.7 ha

1998 Urban 96km<sup>2</sup> •61.9 ha

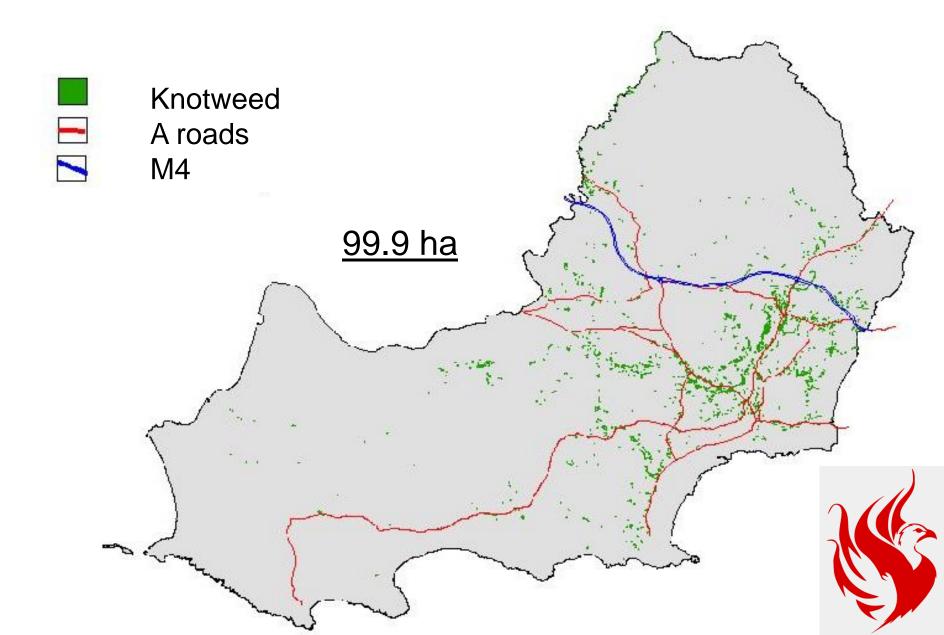
1998 all of CCS 400km<sup>2</sup> (inc' 1992/8 urban area) • 99.9 ha

•Gower AONB repeated 2016/17





### 1998 County survey



#### Spread 1992 to 1998

#### **A Planning Application**

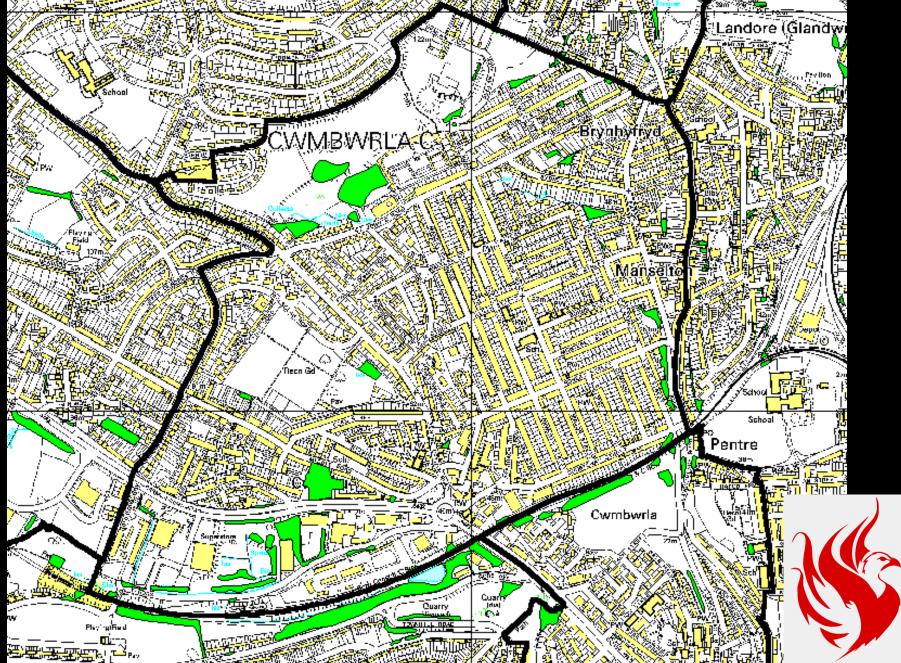
PENTRE

POETH

....



## Cwmbwrla ward 1998 – 4.66 ha



#### Local Development Plan-Housing

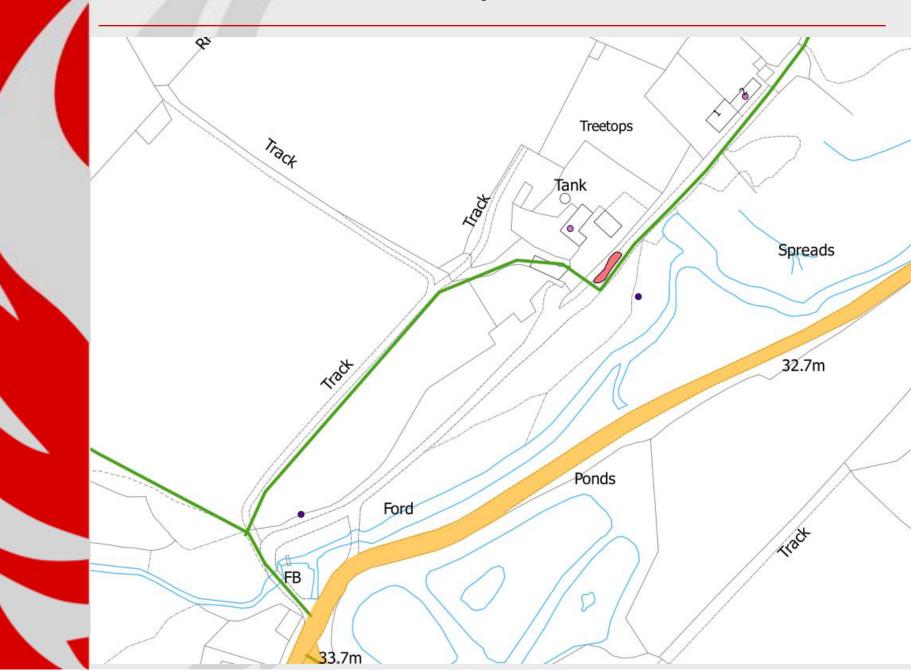


## The Surveys

1		-
	1998 Survey Results	
	•Parks	0.64 ha
	•Landscaped area	2.41 ha
	<ul> <li>Recreation ground</li> </ul>	6.34 ha
	•Railway	4.49 ha
	<ul> <li>Waste ground</li> </ul>	32.34 ha
	•Grassland	12.25 ha



#### Gower Survey 1998 and 2016



#### Gower Survey 1998 and 2016



### Surveys-Who

#### <u>Internal</u>

- Staff eg highways, EVH, parks
- Councilors (City, Ams, MPs, Community, Parish)

#### <u>External</u>

- Friends of
- Schools, students
- Fishing clubs, River Care Groups
- Ramblers
- Sports clubs, outdoor sports
- Eco tourism
- Scouts
- Wildlife Trust, National Trust



### **Developing a plan of control**

Swansea and knotweed

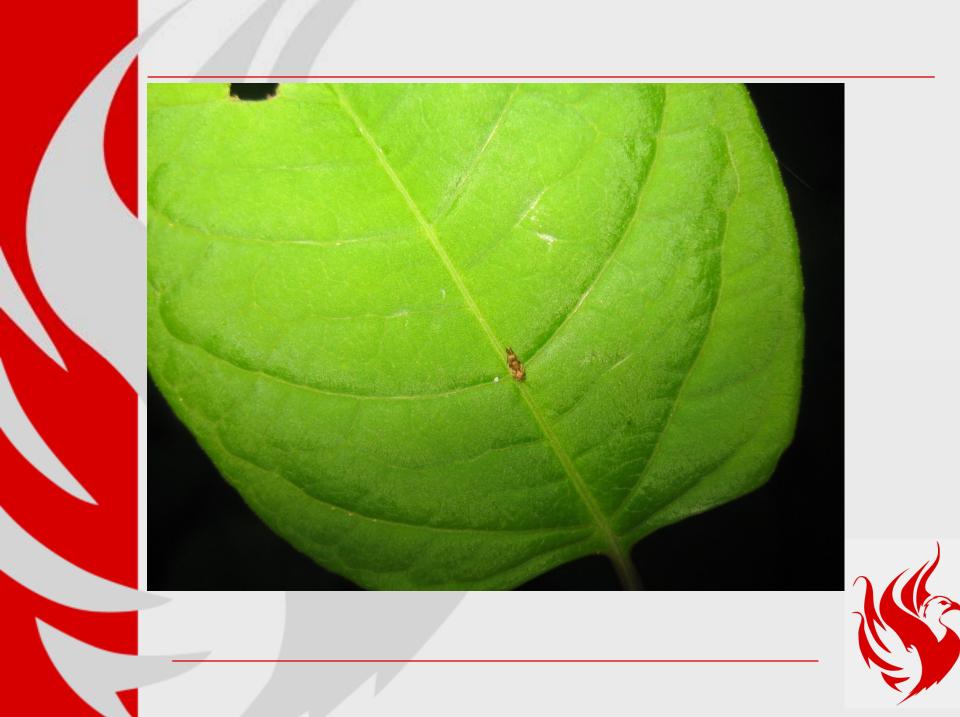
- 1992 Urban knotweed survey
- 1993 Conference
- 1994 First large scale treatment programme
- 1995 Knotweed planning condition introduced
- 1997 Swansea Council Knotweed Action Plan
- 1998 Urban survey (measure increase from 1992)
- 1998 County wide survey
- 1998 Knotweed officer appointed (3 year post)



Swansea and knotweed

- 2000 The Knotweed Manual launched
- 2001 "No knotweed" garden waste bags
- 2002 100 years of Knotweed in Glamorgan
- 2005-8 Last large scale treatment programme, approx 100,000m<sup>2</sup>
- 2011 Wales Natural control trials (knotweed)
- 2012 INNS flora planning condition introduced
- 2015 Wales Natural control trials (balsam)
- 1/8/15 Parks dept' launch payable knotweed control service





#### Action plan

4

Promote and encourage a coordinated approach to the problem

- 2 Identify and treat sites
- 3 Prevent spread into unaffected areas
  - Raise awareness and offer advice



#### **Action Plan**

1) Promote and encourage a coordinated approach to the problem

Partnerships

Co-ordinated control



#### **Action Plan**

2) Identify and treat sites

Criteria list for treatment
Funding
Council land, non council land
Use of statutory/non statutory powers
Monitor treatment



# Criteria for selecting sites for treatment

Designated land

- •Availability of funding, grants, partnerships
- •Causing problems, complaints or an eyesore
- •Safety, highways, health hazard (giant hogweed)
- •Where previous control has been undertaken
- Landscape improvement work
- Planning



# **Action Plan**

3) Prevent spread into unaffected areas

- •Surveys, GIS
- Monitor

Encourage correct disposal

Statutory/non statutory powers



# GARDEN WASTE ONLY GWASTRAFF GARDD YN UNIG

Please do not include Peidiwch â chynnwys

- Large Branches or Logs Canghennau Mawr neu Foncyffion
- · Soil, Stones or Rubble Pridd, Cerrig neu Rwbel
- Food waste or Plastic Bags Gwastraff Bwyd neu Fagiau Plastig
- Animal Waste Gwastraff Anifeiliaid
- Invasive Plants (e.g. Japanese Knotweed)
  - Planhigion Ymledol (e.e. Canclwm Japan)

Enquirles: Environment Department Ymholiadau: Adran yr Amgy Tel/ffon: 01792 635600 recycling@swansd\_\_\_\_

## **Action Plan**

4) Raise awareness and offer advice

### Council staff

•Public, developers, landowners

Professional bodies





# **Quick Wins**

- Basic survey
- Train staff
- Student project
- Knotweed free parks
- Pathways and spread grass clippings
- Unrealistic expectations



# Standard Condition for Planning Permission

1995 Planning Condition added to the planning approval decision notice if knotweed is on site;

Full details of a scheme for the eradication and/or control of Japanese Knotweed shall be submitted to and approved by the Local Planning Authority prior to the commencement of work on site, and the approved scheme shall be implemented prior to the use of the building commencing

•Approx 50 p/a

Also for INNS flora (2012)



# Planning Dept Treatment Costs

1993-96 1996-97 1997-98 1998-99 1999-00 2000-01 2001-02 2002-03 2003-04 2005/06 Total

Treatment Treatment Treatment Treatment Treatment Treatment Treatment Treatment Treatment Treatment

£58,750 £16,000 £32,000 £20,000 £13,000 £9000 £33,171 £46,606 £39,896 £91,307 £359,730



# How we deal with knotweed queries

- The land holding department will deal with the enquiry
- Can treat if it's a problem eg mortgage, damage
- No need to treat is not causing a problem



# How we deal with knotweed queries

- Is it knotweed? (yes) (no)
- Is it on CCS land? (yes)
- Housing (10 DHOs)
- Parks (3 areas)
- Schools/Education
- Highways/adopted roads
- Estates/Policy



# Is it knotweed?



# How we deal with knotweed queries

## **Anti-social Behaviour, Crime & Policing Act 2014**

### The Knotweed ASBO

- The Act does not explicitly refer to knotweed
- Guidance from the Home Office is just guidance (may, can, could etc)
- The Act gives a power (<u>not a legal duty</u>) for local authorities to get involved

"CCS does not have to enforce this Act"



NOT a Statutory Nuisance <u>But</u> COULD BE a Private Nuisance

Common law of private nuisance defined as the "unlawfu interference with a person's use or enjoyment of land, or some right over, or in connection with it"
Allows landowners or tenants of leasehold properties who have a right to the land affected to bring an action against the person responsible.
Could also relates to strict liability for foreseeable damage caused by escapes resulting from non natural uses of land.

PREVENTION OF DAMAGE BY PESTS ACT 1949Sec 4

•Keep land free from vermin

HIGHWAYS ACT 1980 - Sec 154 •Encroachment onto a highway



### ENVIRONMENT AGENCY AqHerb01 FORM

Use of herbicides in or near water (ie 7m)PA1, PA6, PA6AW

WATER RESOURCES ACT 1991 ACT, SEC 221:All rivers, streams, ditches, drains, cuts, culverts, dykes, sluices, sewers and passages through which water flows

(even if the watercourse is dry for part of the year)

HIGHWAYS ACT, 1980, SEC 100(9) •drain includes; ditch, gutter, watercourse, soakaway, bridge, culvert, tunnel and pipe.

•BS 3882:1994, Specification for Topsoil April 1998

6.2 Weeds and Foreign matter free from propagules of aggressive weeds (see N.6.4.5)

N.6.4.5 Weeds and foreign matter

... to minimise future weed control problems, freedom from propagules, e.g. stolons, rhizomes, or other perennial weed species, such as couch grass, red fescue, docks, **Japanese knotweed** and horsetail is critical for planting areas.



# What Can You Do?

<u>DO</u>

- •Plan ahead and understand the problems
- •Find out where your knotweed is
- •Set aside a budget-in the long term
- •Look into grants, partnerships, cost sharing
- •Use appropriate treatment methods
- Use trained contractors
- •Be persistent and patient



# What Can You Do?

## <u>DO NOT</u>

Ignore it-it will only get worse!
Use incorrect methods
eg time of year
Forget the law
Use inexperienced contractors
Expect treatment to work overnight



# The Future

 Tougher legislation (eg via EU 2013) to control movement, sale and spread of INNS

- DEFRA Non Native Review
- Natural Control (in the long term)
- Outside funding eg NRW, WG, EA, EN
- A departmental corporate knotweed control budget
- Correct treatment techniques/methodologies used to ensure successful control in the long term
  New herbicides
- Global warming



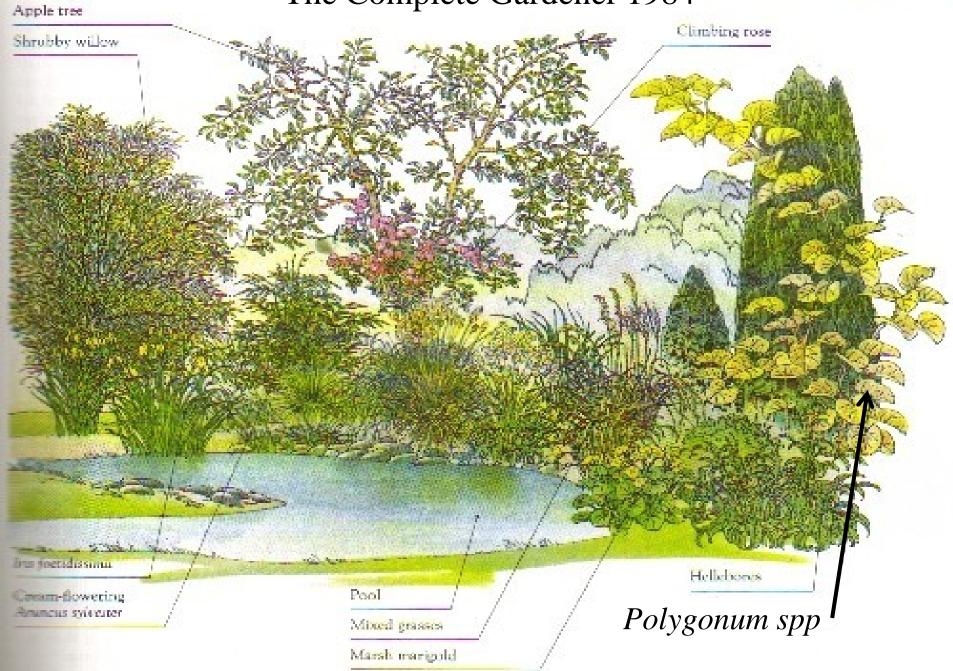




# 23/1/14



## The Complete Gardener 1984



# Conclusion

# **Direct** Action

Treatment

# **Indirect Action**

PlanningEnforcementRaising Awareness



Thank you for listening



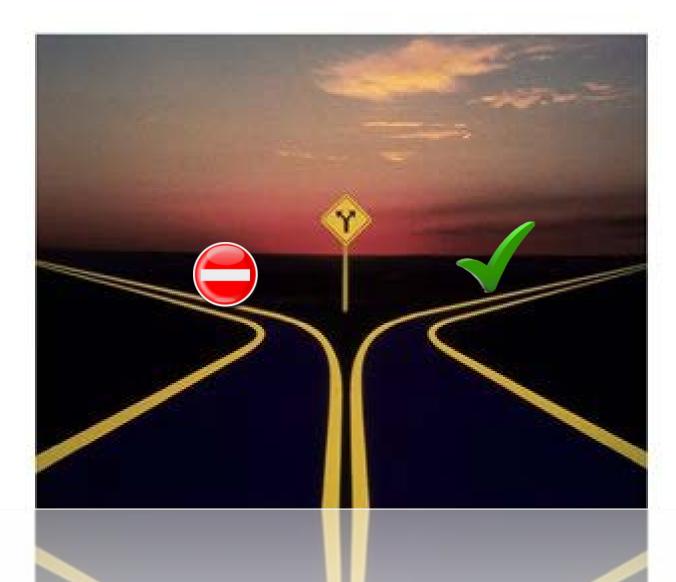
# Making Your Assets Work for You

- Volunteers
- Pavilions
- Commercialisation
- Marketing
- Increasing market share
- New schemes









We can no longer be the philanthropic organisation tending to the absolute needs of our communities

# **HIGH IMPACT VOLUNTEERING**





- Voluntary effort targeted to achieve a measurable impact
- Joining together the delivery of actions that help to deliver a whole place vision,
- Outcomes and benefits of volunteering for the organisation and volunteer are clearly understood
- Achievements measured to ensure best use of the volunteers and their impact
- Volunteers are selected on basis of what they would like to achieve, with clear aims and support to enable them to do so

## **RIGHTS AND RESPONSIBILITIES**



#### Volunteers should :

- Know what is (and what is not) expected of them
- Have adequate support in their volunteering
- Receive appreciation
- Have safe working conditions
- Be insured
- Know what to do if something goes wrong
- Receive relevant out-of-pocket expenses
- Receive appropriate training





# The organisation expects volunteers to:

- Be reliable
- Be honest
- Respect confidentiality
- Make the most of training and support opportunities
- Carry out tasks in a way that reflects the aims and values of the organisation
- Work within agreed guidelines
- Respect the work of the organisation and not bring it into disrepute
- Comply with the organisation's policies

# **VOLUNTEERING BASICS**



- Council Commitment
- Statement of values and principles
- Training & Development
- Support, Supervision and Recognition
- Insurance
- Settling Differences



### **Project Phoenix**

FACILITIES MANAGEMENT



Harrow Commercial Se an by Harrow Council	ervices	Harrowcouncil	Search
Home	Se	ervices	Contact Us
TRAINING & CONSULTANCY			
TRAINING & CONSULTANCY	MOT TESTING	TRADE WASTE	EVENTS
Food Safety	Book Now	Why Choose Harrow	Booking a Commercial Event
Health and Safety	Charges	New Service Improvements	Booking a Community Event
Personal Licence Training		What Goes in Which Bin	Fees & Charges
FILM SERVICES		TRANSPORT & VEHICLE SERVICES	
HARROW FILM SERVICE	GARDENING & GROUNDS	TRANSPORT & VEHICLES	PEST CONTROL
About Harrow Film	Residential Services	Coming Soon	Rats
Filming Locations	Business Services		Mice
Apply to Film	Education & Sports Services		Wasps
FACILITIES MANAGEMENT	CATERING	ADVERTISING & MARKETING	
/A 🏠 🕅	🤝 对 🥗		

ADVERT

CATERING

ADVERTISING & MARKETING



- Implemented 6 major entrepreneurial commercial projects
- Forecast net income of £6.6m over the next 3 years
- Further initiatives in the planning stages.



### Benefiting the community





- Giving wider choice
- More local services
- Offering concessions where merited
- Revenues are re-invested into the Borough



- Projects underpinned by a business cases.
- Robust documents
  - review of the current situation
  - benchmarking data
  - market analysis (competitors, customers)
  - unique selling points / competitive advantages
  - development of proposals (including sales & marketing and implementation)
  - financial assessments and financial sensitivity analysis.
  - Separate risk register, and fortnightly monitoring of the financial data.

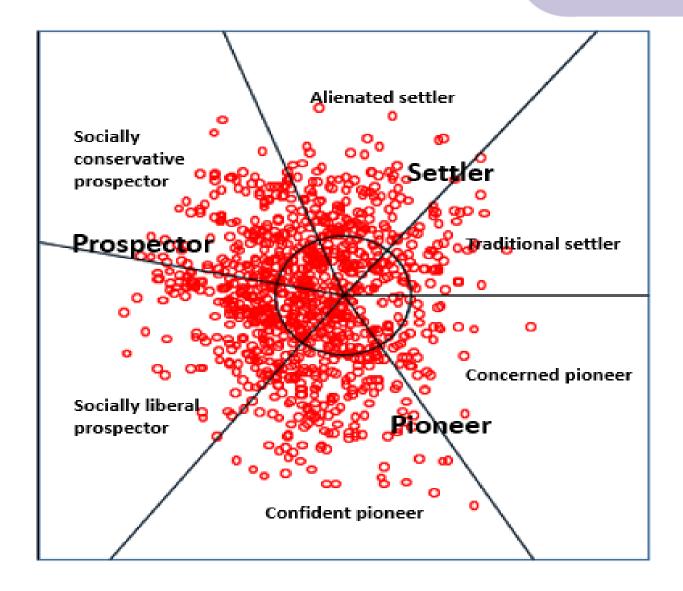
### Getting to the Customer



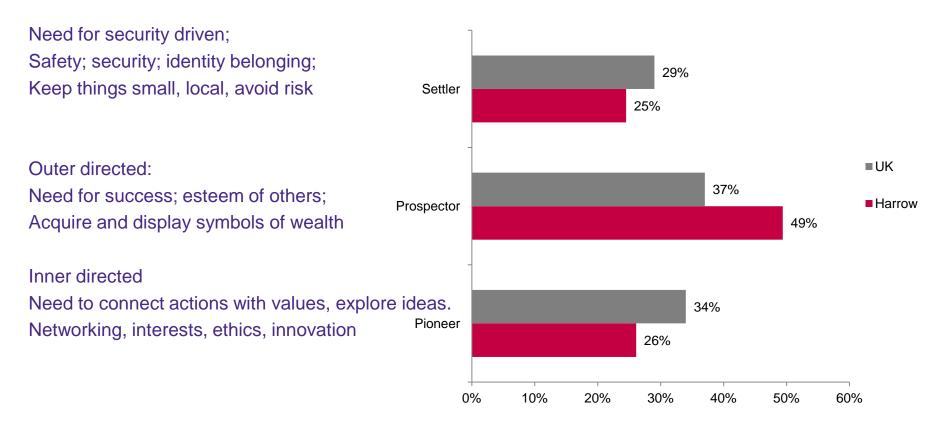


#### Value Modes









Source: TCC March 2015 Base: 990

#### Ethnographic Research in West Harrow







facebook search 'my south harrow' www.harrow.gov.uk/myharrowfund





#### TYPE Skilled – Out of Work

#### DEMOGRAPHIC

- Age 48 66
- Well off but now on reduced income

#### **PEN PORTRAIT** - Cycling Simon

 Had active previous life with good socialisation, activity and financially sound. physical

- Well trained in a job role and trade, worked in local region
- Suffered recent redundancy, job loss or early retirement.
- Time poor due to needing to achieve small income generation,
- Likes the area and has family living in vicinity, may childcare for grandchildren
- Has low self esteem and dim view of the future
- Ranges out in the region with a loose network of colleagues.
- Good sense of social justice

#### **CURRENT LEVEL OF ENGAGEMENT**

Internet savvy, online but selective Good local knowledge Opportunistic notices Interested in environment Keen to be active but doesn't know how

#### **OPPORTUNITIES**

Opportunity to gain employment Reskilling Validation of skills Keen to share skills (master trainer)





#### TYPE Lonely Parent

### DEMOGRAPHIC

35-45

Parent of Primary school children Economic with finance First time

householder

Working partner

### **PEN PORTRAIT – Busy Mum Bev**

- A busy parent whose day revolves around childcare and household economics.
- Intelligent and held a good job before children but is now vegetating "Nappy Brain".
- Lives in NW of Ward, the area is considered somewhat bohemian.
- Tends to stick in the local area within walking of the house.
- Likes to know what is happening locally,

#### **CURRENT LEVEL OF ENGAGEMENT**

- Small social engagement
- Opportunistic notices
- Few socialisation opportunities
- Targeted web browsing

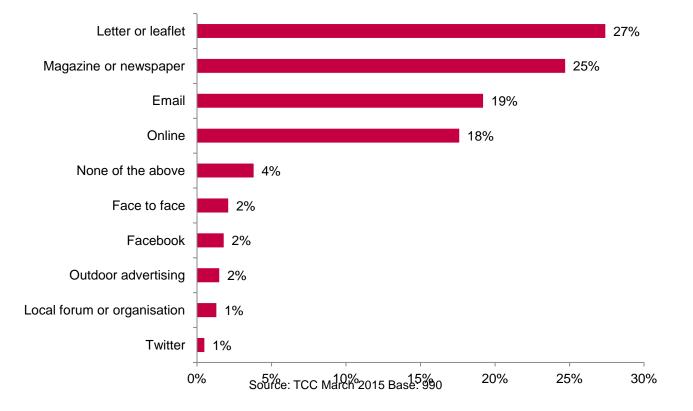
#### **OPPORTUNITIES**

۲

- Link into feeder points
  - Nursery Rhyme Time Schools Local shops
  - Recognition of skills Link to self esteem
- Is unsure on what the Council is responsible for
- Is unsure of the opportunities that would be available to her given her current lifestyle

### **Future Comms Preferences**







Do you need a garden waste collection service? The council offers a flexible and affordable garden waste collection service that we think will suit you down to the ground.

Our flexible options mean that you'll get the

Service that's right for you and only pay for

Sign up for this optional service at the council's website, Sign up for this optional service at the council's website, in person at the Civic Centre or by phoning 020 8901 2600.

www.harrow.gov.uk/gardenwaste

Full pricing at

www.harrow.gov.uk/gardenwaste

October2016

Not only will you get a great collection service, but also the satisfaction of knowing that you're helping to protect vital council services that you've

asked us to safeguard.

the months you need.

Full year

collections every two weeks until March 2017

Summer

collections every two weeks until October 2016





## Harrow Council Commercial Waste Services



## **Key Projects**



## • Increasing market Share

- Trade waste
- Pest control
- Training and consultancy

### New Services

- Pavilions
- MOT Bay
- Grounds Maintenance
- Brent SNT Transport Hub
- Events
- Film service

## TRADE WASTE



#### TRADE WASTE

For cost effective and efficient commercial waste services look no further than Harrow's market leader. Providing best value solutions that are competitive, flexible and reliable. Services include innovative methods of collection and disposal with customer service at the forefront.

With new compatible prices and improved services we want its encourage at basinesses in Herror to take extractings of Herror Councils "Offer to Scientesses" which includes a package of services includes commands weak decised.

66

Herrow a cow of the hip recycling boroughs in London, diverting weaks that would offerense be such for word? and other lass environmentally (mend) options. Beny Lister Senior Assistent Director West London Waste Authomity



quote to use our Trade Waste



Why Choose Harrow? Consolutions will deliver a high quelty, completel, service incorporating the management, strange and collection of hearings and re-hearentous weeks streams.

ind salt more



Our Commitment

Provide a relative collection

Provide a dedicated Trade Water Term

Report to enquine ether 24

Keep prices competitive

Wie will

New Service Improvements To improve the services we provide to you we have introduced Special Collections (Cally Winds) and Pood Waste.

> In November we will be introducing Confidential Waste cullection Contact us now for a free, no utilipation context

> > Privacy & Caskies

Arrandity



 What goes in which bin?

 Avail gains to dependent of the operating of which bins can be dependent of the operating of the operati

Inde veste@herrow.gov.uk

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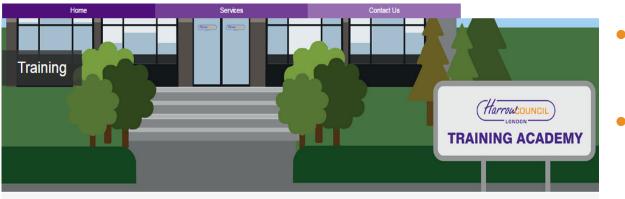
## More recycling

Increase Market Share

- Better service to public (e.g. bulky waste service)
- Increased compliance with Trade Waste legislation

## **TRAINING SERVICES**





You are here: Home > Training & Consultancy

#### TRAINING

All training courses have been developed by Harrow Council to provide a wide range of accredited Classroom and E-Learning training to enhance skills, knowledge and improve business performance.

Courses are delivered by accredited tutors with specific knowledge and qualifications in the courses they deliver. Tutors are fully qualified Environmental Health Practitioners who are able to offer detailed advice to a wide range of businesses. Courses will ensure your knowledge and practices are up to date and meet specific lesislative requirements.

Our courses are open to public and private sectors, all businesses, voluntary and community organisations, and individuals.

Courses will be run from our Training Academy at the Civic Centre in Harrow but we can also provide bespoke courses to meet the needs of your specific business which can be delivered at the academy or at your premises subject to octain oriteria.



- Promoting compliance across the business sector
- Improving knowledge of legislative demands and allowing more self-auditing
- Support businesses in finding advice and training they require
- Consistent approach as those giving the consultancy and training will be speaking from the experience of enforcing such areas

## PAVILIONS







- Evaluate your stock
- What is your market
- Establish payback period
- Increase usage



## PAVILIONS



## The Croft Boxing Club

- Supporting local organisations
- Longer term payback
- Non-financial payback



## FILMING



larrow Commercial Services	Harroutouncil	Search
Home	Services	Contact Us
You are here: Home + Harrow Film Service + Filmin	ng Locations	

arrow Film	FILMING LOCATIONS		
ocations		Sele	ct a Category:
Film		All	
r Parking Restrictions			

On Set

About H

Apply to

Apply fo

Benefits for the Community

#### Alexandra Park

Category: Park

Alexandra Park Is located in South Harrow and has 3 entrances on Alexandra Avenue, Park Lane and Northolt Road. The Park covers a massive 21 acres of green space and has a basketball court, a green gym and small parking facilities



#### All Saints Church

Category: Church

Set back off main road with forested area and cemetery at rear. Could easily be a countryside setting. Other features include stained-glass windows and a bell tower.



#### Art Deco Venue

Category: House/Building

1930's Grade II listed Art Deco Cinema now used as conference / religious venue.



#### Banister Centre Athletics Track

Category: Sports

Newly surfaced running track with long jump sand pit and hurdles. Surrounded by football and rugby pitches (during winter). New pavilion due to be constructed soon.



#### Marketing of Film service with more competitive prices to film companies

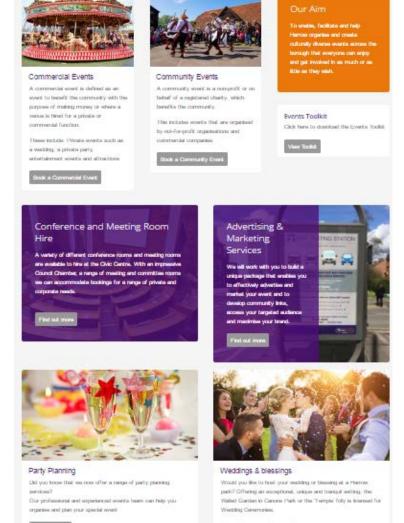
- Increasing revenue through active marketing and networking to 'sell' the benefits of filming in Harrow
- A dedicated team providing advice and assistance in finding and agreeing locations and parking
- Active marketing of opportunities to hire Parks and open spaces

Beechcroft Ave/Vicarage Way

## **EVENTS**



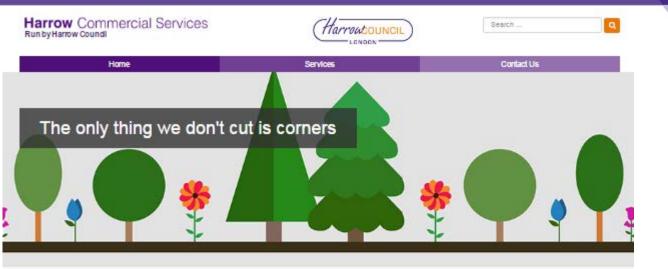
- Increasing revenue through active marketing and networking
- Charging reduced rate for community groups
- Active marketing of opportunities to hire Parks and open spaces
- A dedicated team to assist with bookings and providing a range of associated services to encourage more events in Harrow
- Providing events that benefit the community



More Information Coming Soon?

## HOME GARDENING





#### GARDENING & GROUNDS MAINTENANCE

Do you have a landscaping project, need regular gardening or one-off services? We Can Help!

Our Grounds Team will provide a friendly, qualified and insured Grounds Maintenance service including Horticulture and Arboriculture services for domestic and commercial customers.

A Flexible and reliable service that can be tailored to individual requirements. Whether you are a residential customer wanting occasional grass cutting or basic domestic lawn care to full estate management, we can provide regular scheduled services or even one of bespoke services. We will discuss your requirements and design the right solution for you.



- Complement existing work
- Direct control over front-line service provision

### Speed

Quality staff

## **GARDENING SERVICES**



#### Specialist Services

We provide a reliable and flexible service for all your Grounds Maintenance requirements:

- Sports Grounds
- Schools & Colleges
- Residential Gardens
- Communal Grounds
- Business and Commercial premises
- Housing Developments

### Services Include but not limited to

- Grass cutting
- Landscaping
- Weed control
- Rubbish and fly tip clearance Japanese Knotweed control
- Graffit removal
- Chewing gum removal
- Mechanical sweeping
- Arboriculture (trees)



#### Clean Ups

Our experienced Grounds maintenance team will provide clearance and general clean up services for areas that that have become overgrown and unkempt.

Find out more

### Making use of our extensive resources to offer a large range of activity



#### Residential Regular Grass Cutting

General Gardening	
Landscaping	
Housing association and Landiords	
Case Studies	

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HIN SOLA	4

#### **Business**

Grounds Maintenance	. *
Regular Grass Cutting	
General Gardening	,
Landscaping	,
Case Studies	



#### Education & Sports

Grounds Maintenance	
Regular Grass Cutting	
General Gardening	
Playground equipment	



#### Specialist Fly tipping Japanese Knotweed Hog weed

### Arboriculture (Trees)

66 Once again thank you so much for the fantastic job and the hard work. The grounds look spotless and all the service users, staff and visitors have said what an excellent job. Well done." Milmana Day Cantra

For a free no







# Thank You