Bath Institute of Medical Engineering Limited
Annual Report 2014-15

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designability
Bath Institute of Medical Engineering

www.designability.org.uk
Registered Charity No. 256335
Company registered No. 933932 (London)

About Us

We join expertise and knowledge to enhance people□s lives.

Bath Institute Of Medical Engineering Limited is known as Designability. These financial statements refer to this trading name.

At Designability we are engineering and design experts with a passion for creating life-changing assistive technologies. We conduct original research and develop commercial products that meet real needs.

We advocate better technology for everyone and believe this is best achieved using inclusive design. We work with end-users, carers and health professionals to help us understand the problem, find a solution and test it in real life situations.

Research is where we start. It helps us understand the needs of users, opens up new technologies and leads to the development of new products.

We collaborate with a range of university academic departments around the UK, the NHS and partner other charities to help to maximise our impact on as many people as we can.

We create great looking, easy-to-use designs that go beyond basic functionality □ our products have made a difference to the lives of more than 250,000 people in the last 46 years.

Through our work with Universities and Colleges, we train and inspire the next generation of engineers, designers and therapists, to develop new enabling technologies and products for people with health problems and disabilities.

Our Wizzybug loan scheme provides early powered mobility free to families with young children under the age of 5 years. We now have a national fleet of over 150 Wizzybugs which, since the launch of the loan scheme, is transforming the lives of over 200 children.

Bath Institute Of Medical Engineering Limited
31 March 2015

Message from the Director – Why research?

Without research and dedicated researchers, we would not have so many of the medical treatments and technologies that we take for granted each day. But how much can we still afford to do and is this something that should be confined to academic institutions?

The UK Research Councils define impact of research in academic terms □ significant advances in understanding, methods, theory and also in terms of its contribution to society and the economy. The latter embraces all the extremely diverse ways in which research-related knowledge and skills benefit individuals, organisations and nations. This can be by stimulating economic performance, increasing the effectiveness of public services or policy, enhancing quality of life, health and creative output.

Designability has undertaken research for more than 46 years. In my 5 years as Director, I have strived to ensure that research is a key part of what we do. We aim to carry out research that has high impact, as described above, but what specifically does this mean for us?

Our mechanical, electronic and medical engineering research leads, working in collaboration with our academic and clinical partners, seek funds to carry out research that has the potential to improve the lives of people with disabilities and health problems. We are generally not able to recover the costs of all the time taken to develop and manage these research programmes, so approximately 40% of our donated income is used to support this work.

Most of our engineering, design, therapy and technical team are involved with, or exposed to, the research that we do. This means that they understand how to investigate problems in a methodical, scientific way and how to formally evaluate the results of the technologies or products that we develop. We have a flow of under- and postgraduate researchers within the team; this brings exposure to new ideas and technologies. As a by-product of this, the academic and clinical collaborations that come out of this feed into other areas of our work, such as our new product development and advocacy.

We direct our efforts towards applied research that will have a measureable impact. Elsewhere in this report I have summarised some of these outputs. Many of our products are the result of research projects and would not have happened without this research. These products generate income for us and our partners and provide benefit and a better quality of life to many thousands of people in the UK and abroad.

There are other groups and organisations involved in research, advocacy, product development or charitable work, but I believe that Designability's unique combination of all these areas enables us to use the strengths of each to enhance the whole, which is to the benefit of all those we work with and for. We could not do this without the dedication and hard work of our staff team, volunteers and supporters. Thank you.

I do welcome your feedback and comments on any aspect of our work. It would be good to hear from you. Please write, phone or email me.

Nigel Harris BSc, MSc, PhD, FIPEM

Message from the Chairman of the Council

As I write my very last report as chairman of Council of Designability, I reflect on nearly twenty years as a Council member. Designability has come a long way in that time. Not least, it underwent a name change from Bath Institute of Medical Engineering (BIME), reflecting its need to appeal to the wider world beyond the boundaries of Bath itself, and beyond the boundaries of medical engineering, although that remains its core activity. As the Director has indicated, research has always been, and remains fundamentally important in order to ensure the highest standards of product development, as patients□ requirements change with age or disability, and as technology itself evolves. With the relative lack of research funding compared to all those years ago, the organisation was required to become very much more commercially aware than formerly, in part to fund that research, but also to enable it to thrive commercially; I am pleased to say it has succeeded in doing so. It has been a pleasure and a privilege to be part of Designability□ s evolution over this period, and I thank the Director and all of the staff for hard work, dedication and loyalty. I leave the organisation, confident that it will continue to meet future challenges in the next twenty years. The incoming Chair has my very best wishes.

Patrick Magee PhD, FRCA

Summary of Activities

Our operating strategy is based on the assumption that we will maintain a balanced portfolio of charitable activities comprising: applied research and development, the provision of new products, knowledge transfer and advocacy.

Research and Development

This is where much of what we do starts. The benefits of research are:

- It leads directly to the development of new knowledge and new products or services
- Provides funding to support members of staff with specific areas of expertise
- Working with our academic partners, it provides us with access to state of the art knowledge and technologies
- It allows us to engage with new young talented researchers
- Our research skills allow us to develop and evaluate our products in an evidence-based and scientific way

At present, we have four lead researchers, working in Rehabilitation Engineering, Mechanical Engineering and Electronics/computing, supported by other members of the team. Research publications and presentations are perhaps the most visible outputs from our R&D programme. Typically, presentations provide early information on the results of the research programme. These are then followed up some time later with conference proceedings or full publications. The table below summarises our activity over the past 5 years.

Year	Presentations	Publications
2010/11	8	2
2011/12	18	4
2012/13	12	10
2013/14	8	6
2014/15	12	16

There are a number of metrics that can be used to assess the impact of these publications. The Citation index, the number of times a paper has been cited in other research publications, provides a simple measure. Our top four papers, describing new medical technologies, inclusive design and the development of smart house technology for people living with dementia have had over 224 citations. Our top eight papers have a total of 278 citations. The number of citations will increase with time, but do provide a measure of the impact of the work.

The UK Research Councils define impact of research not just in academic terms (significant advances in understanding, methods, theory) but also in terms of its contribution to society and the economy. For us this would include the development of new products that we have brought to market, and the impact of our work in changing or influencing policy and thinking. It could also be whether the work fostered new research collaborations, enabled us to retain or recruit staff with key skills, or provided postgraduate training.
The table below lists just a few of the larger grants that we have held and summarises some of the outputs. We have not taken into consideration more recent grants as the impact is not yet apparent.

Project	Funding and	Impact

Bath Institute Of Medical Engineering Limited
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	period	
ENABLE Technologies for people living with dementia	European Union Research 1998-2002	Development of the concept for the Kitchen Minder product. New publications and follow on grant INDEPENDENT. This work established our reputation for developing technology for people living with dementia
INDEPENDENT Quality of life of people living with dementia	Engineering and Physical Science Research Council (EPSRC) 2004 -2007	One button radio, launched in 2009. Simple Music Player, launched 2014. Developed the concept of Window on the world video system (inTouch) Everyday technologies for Alzheimer□ s Care research on Sequence prompting. New publications. The technology we developed was pioneering and was showcased by the EPSRC Evidence to House of Lords report on Ageing. The technology is now being applied to support people recovering from brain injuries.
SOMNIA Developing assistive technology to help improve sleep quality in residential settings	New Dynamics of aging 2007 □ 2009	Night light tray product, launched in 2014. Work in progress on a Communicator aid. New publications
Compliant Seat for children with Dystonic Cerebral Palsy.	Action Medical Research	Provided postgraduate research training and PhD for our Engineering Lead (Tim Adlam). Compliant seat provided for a child and new product development in progress. Dynamic foot support product under development. New grant to develop the seat for very young children, recruited new mechanical engineer and therapist.
ETAC Every technologies for Alzheimer□ s Care	Alzheimer□ s association 2009. 12 months	Showcased our work internationally, resulting in academic new collaborations. Led to a Dunhill Medical Research grant on task sequencing
Task Sequencing for people living with Dementia	Dunhill Medical Trust 2009 - 2010	Publication in press. Further 3 years funding approved by Dunhill to develop a product.
InTouch - reducing social isolation of people living with dementia	EPSRC 2008-20011	Publications and presentations. Featured in the report to Parliament on Assistive Technology. New Innovate UK SMART award with a commercial partner to develop a product. The project website has had over 1000 hits and there are two commercial products that have used elements of our design.

Focus on the Wizzybug Loan Scheme

The Wizzybug is a fun powered wheelchair designed specifically for children under five who are not able to walk independently. The most common conditions that

cause this are cerebral palsy and spinal muscular atrophy. Children as young as 18 months can operate the simple joystick controls; this allows the child to develop spatial awareness, social interaction and independence. Wizzybug was designed by our team of engineers, working in partnership with occupational therapists and the families of disabled children. It can be used indoors and out of doors in accessible areas such as level gardens, playgrounds and parks, enabling children to enjoy the experience of mobility with their "first wheels".

There is often no NHS funding for powered mobility for children under 5 years old. We estimate that there may be as many as 400 children under the age of 5 years who might benefit from a Wizzybug. To enable as many children as possible to benefit, we set up a Loan Scheme which provides Wizzybugs to families who would otherwise be unable to afford one. The scheme is free, all we require is a letter of support from the child□s Occupational or Physiotherapist and a small returnable deposit. The child keeps the Wizzybug as long as they need it. Once the child has outgrown it, generally around the age of 5, it is then returned to us and refurbished ready for another child.

Families come to Designability in Bath for an assessment with one of our Occupational Therapists and Engineers. They learn how to use and look after a Wizzybug and □ all being well □ take it home to try!

The scheme has grown since it was launched in 2011; we now have over 150 Wizzybugs and over 200 children are benefitting or been allocated a Wizzybug. This would not be possible without the support of individuals, Rotary and Inner Wheel groups, corporate sponsors and many trust funds. To date we have raised over □780,000 towards our target of □1M, which will enable us to support a fleet of 250 Wizzybugs for children around the UK.

With an upturn in production of Wizzybugs, we have had to seek offsite premises to enable us to function efficiently. This has resulted in Designability taking on a 2 year lease of Unit 5 Victoria Park Business Park, where all assembly and storage of Wizzybugs is facilitated.

The difference we make

After taking home their Wizzybug, one family told us: □watching him move in his Wizzybug is like watching a child take their first step□.

The mother of twin girls commented recently: "I like to take the girls to the park but Sophia used to get very frustrated when Layla could just play and interact with other children and she couldn't. Now she is able to make independent decisions herself and interact with others."

The difference for the children is described by a parent □She could interact more with her peers; exploring the garden, going to the park or for a walk to the shops was suddenly so enjoyable for her- she had huge amounts of fun in her Wizzybug plus other children thought it was so cool !□

We follow up all the families of children after 4 weeks, and then every 6 months to check how the child is benefiting and whether they are achieving their goals for using their Wizzybug.

Children get very attached to their Wizzybug, as they often use it every day for two or three years. Do take a look at our film □Wizzy and Daisy□s day□ to see the difference yourself at: www.designability.org.uk/product/wizzybug/.

Our Products

While some of our products, such as Wizzybug, are still made in our workshop, our aim is to work with selected commercial partners to manufacture and bring our products to market. This ensures that they are competitively priced, can be distributed in the UK and abroad, and so will benefit as many people as possible. We negotiate a royalty for every product of ours that is sold; this provides income which goes back into the development of new products.

We have had another very successful year. We were particularly pleased to celebrate the milestone of 5,000 Day Clocks with DF Sales. Details of the successful Wizzybug loan scheme were given earlier in this report. The Day Clock, One Button Radio and Simple Music Player are now also being sold in the United States. The Night Light Tray has also been successfully launched by our partner E2L Products.

Every product of ours that is sold will improve the quality of life of an individual with a health problem or disability, or their carer. It is easy to underestimate the impact of this. This is one example of the many testimonies, which we have received from a granddaughter who purchased a Day Clock for her grandfather in the United States:

I'm the main caretaker for my 87 year old grandfather, he has a slight case of dementia. He lives alone in a senior citizen building but he's fairly independent, he's able to cook for himself, dress himself, and still go shopping at nearby stores. But I visit him weekly to help with different things. But for months he'd constantly forget what day of the week it was. He'd go all the way to the bank on a Sunday to find it closed, because he thought it was Monday. He did things like this all the time. Plus a huge problem he'd have was thinking it was morning, when it was really night. I went to visit him once around at 7pm and he was asleep when I arrived, he immediately started cooking "breakfast" and was about to take a shower because he thought it was the morning time. Things like this happened repeatedly. ... Believe me this clock has been a life saver, it's the best $100 we ever spent. I visit him frequently and he NO LONGER is confused on whether its morning or night, and he's NO LONGER confused about what day of the week it is, or whether its morning or night. He's more stable & this keeps him more independent. He LOVES this clock. It's a beautiful clock, it looks very stylish, the letters are large & easy to read. It sits on his dresser so it's the FIRST thing he sees when he wakes up. He starts his day knowing what day of the week it is---and when he takes a nap he can look at this clock so he knows it's still night time, not the morning. He no longer leaves the house at the wrong hours.

The table below gives you some idea of the difference that we make.

Product	Category	Total sales over last 5 years
Wizzybug	Early years mobility	Loan scheme
Wheelchair Baby Carrier	Early years mobility	Loan scheme
Bottom Wipers	Daily living	45,000
Visual Reinforcement Audiometry System	Medical Diagnostics	44
Swallow Reminder	Health and wellbeing	497
Wander Reminder	People living with dementia	380
One Button Roberts Analogue Radio	People living with dementia	422
One Button DFS Radio	People living with dementia	822
One Button Digital Radio	People living with dementia	228
Day Clock	People living with dementia	10,122
Ward Orientation Clock	People living with dementia	100
Simple Music Player	People living with dementia	108
Blys Night Light Tray	Daily living	209
Custom Bikes (Adults and Children)	People with restricted growth	66
Toilet Handles	Children with restricted growth	396
School Chair Footrest	Children with restricted growth	520
Linton Lift-Assist Mobile Commode Chair	Daily living	20 (estimated)

Workshop referrals

Being based on site, we are pleased to provide engineering support to the RUH Foundation Trust. We have several service contracts for specialised seating, particularly with Chemotherapy, where we are also facilitating the reupholster of some of these chairs. We also carry out specific breakdown cover for departments and are currently involved with a refurbishment project for Retinal Screening of their bespoke mobile camera trolleys.

Royal United Hospital Technology Gallery

We have been supporting the hospital□s new initiative to establish a Technology Gallery on site. This provides a demonstration area with information on product options for people with memory problems or dementia. The gallery is open to members of the public, visitors and patients, dementia care co-ordinators, hospital staff and other healthcare professionals. The resource room is based in the therapy outpatients department and showcases products that can help people with dementia stay safe and well at home. The service is provided on an appointment basis and run by the Therapy Team and supported by an advisor who can provide training and assistance in how to use the technology.

Educational Work and Advocacy

We had an excellent attendance for our 2014 Annual Lecture □Data Scientist □ heal thyself', given by Professor Ian Craddock from the University of Bristol. If you would like to hear the lecture, a podcast can be found at: www.bath.ac.uk/podcast/itunes/itunes-rss/177-podbath-ProfCraddock.mp3

The Assisted Living Action Network (ALAN) continues to develop; this year we are broadening the sponsors to include the University of West of England and will be developing the network beyond Bath into the South West, as we alternate the venue with Bristol. Details of events are available on the ALAN website: ubic.org.uk/alan/

We have supported two Undergraduate Design and Engineering Projects at the University of Bath.

We are pleased that Hannah Dalton, our Pre-registration Clinical Scientist, successfully completed her higher training in Rehabilitation Engineering with us. We are also pleased that Katt Whalley has joined us on placement, Katt is a Mechanical Engineering student at the University of Bath.

The DOCTRID Research Institute is an Interdisciplinary Research Institute on Intellectual Disability at the Daughters of Charity Service that operates from a collaborative, international, research model. We are pleased that Designability will become a member of this international consortium and will be able to contribute to the Postgraduate research training programme. Full details are on the DOCTRID website http://www.doctrid.ie/

Facilities

As the number of Wizzybugs on the loan scheme has increased, we have out grown the space in our workshop. We have therefore setup a Satellite Production Unit for Wizzybug in an industrial unit down at the Riverside in Bath. A tremendous amount of work was needed to fit out the new workshop, before we could begin operations in January. The work was led by Martin Rouse, our Workshop Manager, supported by a team of volunteer cleaners and decorators from Chelwood and Bath Rotary Clubs. Thank you and well done.

Staffing

We are very pleased that Associate Professor Praminda Caleb-Solly has joined us as lead for our Computing and Electronics. This is a joint post with the University of the West of England as part of a joint 5-year programme of work to understand how autonomous and smart systems might be used to support health and wellbeing.

As the Wizzybug loan scheme has grown, we have needed more dedicated Occupational Therapy input and more time within the production unit for construction. We are very pleased that Rae Baines is our new Wizzybug OT and Derek Powell is our new Production Assistant. We have also increased our Design team and are very pleased to welcome Jess Fox.

We are sorry that some key members of our team moved on in the summer of 2015. Emma Andrews our Promotions and Wizzybug promotions officer moved to a more senior post. Emma managed the rebranding and website redevelopment, and over the last 12 months she had successfully overseen the growth in the Wizzybug loan scheme. Tony Husband stepped down as Deputy Director and Commercial Manager. Tony has made a huge contribution to our fundraising and commercial work in the 5 years that he has been with us. We are very pleased that Tony will continue to work with us part-time within the fundraising team. Finally, Emma Beadle, our OT Assistant who worked hard to set up and establish the Technology

Gallery has left to train as an OT. The Designability team is changing and the latest profiles are in the about us section on the website at: www.designability.org.uk/about-us/team/

Our Volunteers and Associates

We are enormously grateful to our volunteers and associates who dedicate their time and expertise to helping us with our charitable work. We are also very thankful to our national panel of assistive technology users, carers and professionals who continue to provide us with their ideas and views on our on-going and new design and development projects.

New research grants and awards

Adlam. T.D., The design and manufacture of seating for an investigation of the effect of whole body dynamic seating on the activity, participation, and quality of life of children with dystonic movement disorders. Sparks for Children□ s Health. □ 85,900. 2015□ 2016

Harris, N.D., Noonan, K., Evans. N.M, Cheston, R. Exploring the feasibility of a client-centred electronic prompting tool for supporting everyday activities in individuals with mild to moderate dementia. Dunhill Medical Trust. □ 203,700. 2015□ 2018

Publications

Adlam T, Orpwood R, Wisbeach A, Johnson E. Look at me! A functional approach to dynamic seating for children with dystonia. *Developmental Medicine and Child Neurology* 2015; 57 (Suppl. 4): 27.

Alnuaim A, **Caleb-Solly P,** Perry C . Evaluating the effectiveness of a mobile location-based intervention for improving human-computer interaction students' understanding of context for design. *International Journal of Mobile Human Computer Interaction* 2014; 6(3): 16□ 31.

Alnuaim A, **Caleb-Solly P,** Perry C. A mobile location-based situated learning framework for supporting critical thinking: a requirements analysis study. In: Sampson DG, Ifenthaler D, Spector JM, Isaias P (eds). *Digital Systems for Open Access to Formal and Informal Learning,* pp. 139□ 158. Springer International Publishing, 2014.

Boyd H, Jones S, **Harris N,** Panteli N, **Leake J.** Development and testing of the inTouch video link for people with dementia. Design approach and practical challenges, pp. 608□ 612. *IEEE International Conference: Bioinformatics and Biomedicine (BIBM).* Inaugural International Workshop on Assistive Technologies in Smart Environments, 2014.

Boyd H, Evans N. Designing technology for and by women. *Women and Dementia,* August 2014. Available at: www.dementiawomen.org.uk/news_1s999998o28.html

Boyd HC, Evans NM, Harris ND. Supporting task sequencing for people with dementia: how should prompting be delivered. *Clinical Rehabilitation* 2014; 28 (4): 403□ 415.

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Dalton H, Adlam T, Wisbeach A, Robertson A. An evaluation of a simulated dynamic foot support. In: Cooper D, Story M (eds.). *30th International Seating Symposium,* p. 64. Interprofessional Continuing Education, University of British Columbia, Vancouver, 2014.

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Evans NM, Cheston R, **Harris N.** Personal message cards: an evaluation of an alternative method of delivering simulated presence therapy. *Dementia* 2015 in press. doi: 10.1177/1471301215574363

Sparke A, Torlei K, Voss S, Page M, Benger J, Matthews E, Hillman M, Hart D, McLaughlin E, Carter J, **Harris N.** The 'Necksafe' head articulation control system: a novel cervical immobilisation device. *Emergency Medicine Journal* 2015 ; 32(7): 564□ 570.

Sun M, Geelhoed E, **Caleb-Solly P,** Morrell A. Knowledge and attitudes of small builders toward sustainable homes in the UK. *Journal of Green Building* 2015: 10 (2): 215□ 233.

Timon CM, Astell AJ, Hwang F, **Adlam TD,** Smith T, Maclean L, Spurr D, Forster SE, Williams E. The validation of a computer-based food record for older adults: the Novel Assessment of Nutrition and Ageing (NANA) method. *British Journal of Nutrition* 2015; 113: 654□ 664.

Topham P, **Caleb-Solly P,** Matthews P. Mental health app design □ a journey from concept to completion. *MobileHCI '15. Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services*, 2015.

Presentations

Adlam T. Look at me! Functional Seating for Children with Dystonia. British Association of Childhood Disability / British Association for Community Child Health, South West Regional Joint Meeting, 20 Jan 2015, University of Exeter Medical School.

Adlam T. Asymmetric Dynamic Seating for Children with Whole Body Extensor Spasms. Presentation to Dept. Neurodisability, Evelina Children□ s Hospital, London, July 2014.

Adlam T. Seating for Children that Cannot Sit: Asymmetric Dynamic Seating for Children with Whole Body Extensor Spasms. Presentation to Dept. Mechanical Engineering, University of Bath, Nov. 2014.

Adlam T. Design, Disability and Capability: understand the person, solve the right problem. Masterclass on Medical Engineering Design. Smallpeice Trust Course on Biomedical Engineering, Southampton University, July, 2014.

Boyd H. Designing Accessible Technology for People Living with Dementia. Presentation to Bristol Research Consortium □ SPHERE□, Bristol University, April, 2014.

Caleb-Solly P. Panellist on debate □ Social Acceptance and Risk□ . NMI Trade Association for Electronic Systems, Microelectronics and Semiconductors in the UK, Future World Symposium, Autonomous Systems, London, April, 2014.

Caleb-Solly P. Taking Care of our Independence. The Shape of Things to Come. South West Seniors Assembly, Weston-super-Mare, September, 2014.

Caleb-Solly P. Invited presentation on the SAM app. Assisted Living Action Network, Bristol, October 2014.

Caleb-Solly P. Presentation on the SAM app, Best Practice Caf□ Session, and Invited speaker at the Inspiring Peers Session. UK e-Health Week, organised by the BCS and NHS, London, March, 2015.

Caleb-Solly P. Invited speaker at seminar □ Technology and Older People□ . Research Programme on Ageing and the Life Course (RPALC), School for Policy Studies, University of Bristol, May, 2015.

Evans NM. Can Technology support the cognitive and emotional needs of people living with dementia? Poster presentation, College of Occupational Therapy Conference, Brighton, June 2014.

Harris N, Evans N, Haines K. Workshop on Memory Technology Library □ Using Technology to Support the Cognitive and Emotional Needs of People Living with Dementia. West of England Academic Health Science Network Innovation & Research. Making a Difference Together, October, 2014.

Leake J, Harris ND, Keogh E, Eccleston C. Is photoplethysmography-derived pulse shape useful for fall detection? 7th International Conference on Pervasive Technologies Related to Assistive Environments, Rhodes, Greece, May, 2014.

Bath Institute Of Medical Engineering Limited
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Summary of our Financial Performance

Donations this year have reached a new record level of □519,199, split 50:50 between the Wizzybug loan scheme and our other appeals. The Wizzybug loan scheme is our major charitable activity and is still gaining considerable momentum and raising our profile amongst the general public through the Wizzy and Daisy□s Day film and a recent feature on the ITV evening news.

We have so far raised a total of over □780,000 in donations for the Loan Scheme, which has enabled us to produce 154 Wizzybugs for the loan scheme to benefit 218 families across the UK. The most significant fundraising achievement of the year was one single generous donation of □45,000.

Research grant income ended the year at □76,610; this was □24,000 under budget and down on the previous year. Going forward, we are very pleased to have received notification of new grants awarded by the Sparks Charity and the Dunhill Medical Trust. In addition, the appointment of a new electronics and software lead half way through the year is anticipated to result in further new grants.

Product sales and royalties achieved a total of □165,452, exceeding budget and the previous year. Points to note are a renegotiated contract with the importer of Wizzybugs in Australia, which includes a minimum annual volume of 20 units, amounting to guaranteed annual sales of around □60,000. There was also a significant increase in VRA sales due to our commercial agreement with PC Werth to be our sole distributor.

Three new products have come on stream through commercial partners during the year and we now have nine products commercialised through third parties:

- Desk Clamp □ Peta
- Bottom Wipers □ Patterson Medical
- Dayclock □ DF Sales
- Lifting Commode □ Aidapt
- Combe Clock □ DF Sales
- VRA □ PC Werth
- Nightlight Tray □ E2L
- Simple Music Player □ E2L
- One Button Radio □ DF Sales.

Our commercial consultancy services are becoming more widely known and new client contracts accounted for income achieving □63,371, exceeding budget and the previous year.

The chart below shows the breakdown of income for the year-end. Donations make up 62% of income with product sales and royalties at 20%, research grants at 9%, consultancy at 7% and interest 2%.

Bath Institute Of Medical Engineering Limited
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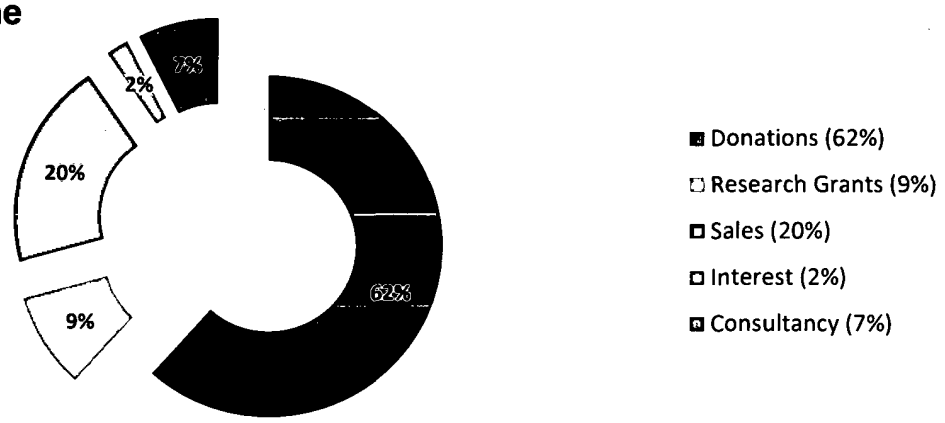
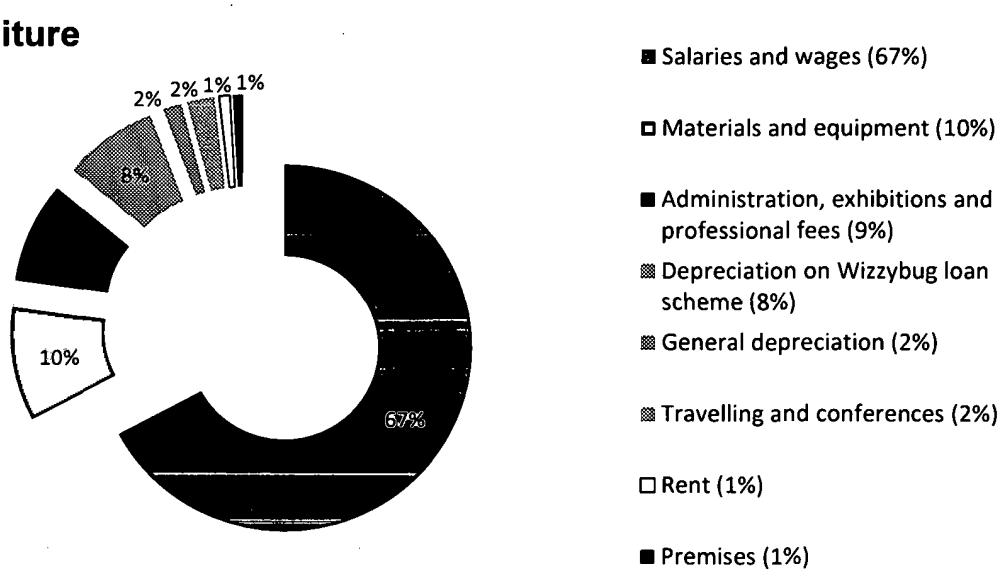
Income



Total expenditure for the year was □ 759,064; of this, salary costs amounted to □ 509,040.

Expenditure



The audited accounts show a surplus of □ 122,455 (or □ 83,557 discounting the unrealised gain on investments).
Designability Council have agreed that the surplus will be utilized in 2015-16 to fund a second design engineer and to provide support for the implementation of a new quality management system within the production unit.

How we are Governed

Designability is a registered charity and company limited by guarantee under its formal name Bath Institute of Medical Engineering.

Our work is overseen by our Council of Trustees and supported by our President.

Council of Trustees

Our unpaid Council of Trustees meets at least three times per year and is responsible for ensuring that we meet our charitable objectives and are run according to our Articles of Association and Memorandum of Association.

- Dr Patrick Magee (Chair) Retired Anaesthetist
- Ms Libby Gawith (Council Vice Chair) Civil engineer
- Mr John Bishop (from Nov. 2014) diverse Directorships
- Mr Bob Calleja, (to Oct. 2014) Retired Business Consultant
- Professor Chris Eccleston, (to Feb. 2015) Director of the Bath Centre for Pain Research, University of Bath
- Professor Richie Gill, Professor of Healthcare Engineering, University of Bath
- Professor Ben Hicks, Professor of Mechanical Engineering, University of Bristol
- Professor Tony Miles, Professor of Biomechanics, Head of Department Mechanical Engineering and Director of the Centre for Orthopaedic Biomechanics, University of Bath
- Ms Sarah Phillimore, Family Law Barrister at St John□ s Chambers
- Mr Gordon Richardson, Chairman and Trustee of Action on Disability & Work UK (previously the Vassall Centre Trust), Bristol
- Dr Louise Shaw, Consultant Stroke Physician, Royal United Hospital, Bath
- Dr Manuchehr Soleimani, Senior Lecturer in the Department of Electronic and Electrical Engineering, University of Bath
- Mr Steve Tanner, Engineering and Manufacturing Consultant
- Professor Mark Tooley, Head of the Department of Medical Physics and Bioengineering and Director of Research and Development at the Royal United Hospital, Bath
- Dr Irene Turner, (to Dec. 2014), Reader in the Department of Mechanical Engineering, University of Bath
- Dr Christos Vasilakis, (from Dec. 2014), Director of University of Bath□ s Centre for Healthcare Innovation and Improvement)
- Dr Elizabeth White, Head of Research and Development at the College of Occupational Therapists

Projects Committee

Our Trustees appoint an unpaid Projects Committee to advise on our research and development programme.

- Dr Elizabeth White (Chair) Head of Research and Development, College of Occupational Therapists
- Ms Mary Chapman, Manual Handling Advisor, Royal United Hospital, Bath
- Professor Richie Cheston, Chair of Mental Health Research, University of the West of England
- Dr Elizabeth Dekoninck, Mechanical Engineering, University of Bath
- Dr Emma Frampton, Consultant in Palliative Medicine, Dorothy House Hospice
- Professor Richie Gill, Healthcare Engineering, University of Bath
- Mr Lindsay Grant, Consultant Clinical Scientist
- Mr Lawrence Griffiths, Consulting Electronic Engineer
- Professor Nigel Harris, Director of Designability
- Ms Sally Knudsen, Orthopaedic Physiotherapy Specialist, Royal United Hospital, Bath
- Dr Patrick Magee, Retired Anaesthetist, Chair of Designability Council
- Mr James Stuart-Smith, Director, Astor-Bannerman
- Mr Steve Tanner, Engineering and Manufacturing Consultant

Director

Day to day responsibility for the running of Designability is delegated to our Director.

Director: Professor Nigel Harris, BSc, MSc, PhD, FIPEM

Company Secretary

Our Honorary Secretary and Assistant Secretary are appointed by the University of Bath.

Company Secretary: Mr M.G.W. Humphriss, University Secretary, University of Bath

Honorary Assistant Secretary: Ms M.C. Henderson, Administrative Officer, University of Bath

President

Our President is elected at our AGM for a term of two years. He/she provides us with advice and support and helps us spread the word about what we do.

President: Rt Hon. Don Foster MP

Council's Report

Nature of governing document and how the charity is constituted

Designability is a charitable company limited by guarantee, incorporated on 18 June 1968 and registered as a charity on 11 July 1968. The Institute was established under a memorandum of association which established the objects and powers of the charitable company and is governed under its articles of association. Under this Constitution, each member of the Institute is liable to contribute □ 10 in the event of wind-up.

Organisation structure and how decisions are made

The Board of Trustees (Council) meets three times per year and is responsible for the strategic direction and policy of Designability. Responsibility for the day to day running of the Institute and delivery of activities is delegated to the Director.

Statement confirming major risks have been reviewed and systems and procedures have been established to manage these risks

The Trustees have reviewed the major strategic, business and operational risks, which the charity faces at this stage of its development, and identified key risks. Actions to address key risk areas have been agreed and progress is reviewed once per year by the trustees. In addition, strong financial controls are in place to mitigate the risk of financial losses due to theft or fraud, and these controls are regularly reviewed.

Reserves policy

Given the size of the Institute and the unpredictability of some of its income streams, an appropriate level of designated unrestricted reserves is considered to be that which is sufficient to cover 12 months' core running costs (□ 724,908). The Trustees calculate the free reserves as that part of the unrestricted funds that are freely available, after taking into account the designated funds outlined above, the restricted funds which have been earmarked for specific projects and also the tangible assets. At 31 March 2015 the charity had unrestricted free reserves of □ 273,113 (2014: □ 293,092). See also Notes to the Accounts, note number 13 (Designated Funds).

Public benefit statement

We have referred to the guidance contained in the Charity Commission's general guidance on public benefit when reviewing our aims and objectives and in planning our future activities. In particular, the trustees consider how planned activities will contribute to the aims and objectives they have set.

The objects of Designability are the advancement of medical education and of engineering research for medical purposes, the dissemination of the knowledge thereby acquired and the relief of those in need (by reason of their disability, age or infirmity) by the provision of devices and equipment to assist in their medical treatment or improve their quality of life. Evidence of how Designability has performed against these aims and the public benefit and impact achieved is detailed within the information regarding our activities.

Investment Policy

The Trustees manage the investment portfolio. Monies not immediately required for the objects of the Institute may be invested in investments, securities or property as may be thought fit having regard to any consent and in accordance with any relevant laws. The Council includes Trustees with sufficient specialist knowledge and experience of investments suitable to the present needs of the Institute.

Methods policies and procedures for recruitment, appointment, induction and training of trustees

The Council has appropriate procedures for the recruitment, appointment, induction and training of its trustees. The Officers of the Charity, supported by the Director and Company Secretary, consider the skills, diversity and gender-balance of the Council prior to appointments being made and arrange for induction as befits the appointee.

Plans for the future

This next year we will carry out a formal review of the Objects of the charity, to ensure that they are still appropriate and relevant for the health and social care challenges that society faces today.

We will continue to a three-point programme of work focusing on applied research and development, education and knowledge transfer and the provision of technology and equipment. Specific measures include:

- Secure new research funding for our work in each of our three priority areas - Paediatric Mobility and Seating, Assisted Living and Clinical Engineering
- Increase the impact of our research, by influencing changes in policy through scientific publications, translation of the outputs of the research into new products and services
- Seek new opportunities to work with Commercial partners to exploit our research, by developing new products or services
- Supporting undergraduate and postgraduate student projects and placements
- Develop the Assisted Living Action Network to fulfil a wider South West role
- Run national and international educational events highlighting the importance of early powered mobility
- Seek funding to develop a secondary school design and technology resource pack
- To use our expertise in user-centred design and technology to help academic, commercial or health service providers to develop or to improve the performance and impact of their products
- Expand our Wizzybug loan scheme to achieve our target of making 250 Wizzybugs available for children around the UK.

Statement of Council Responsibilities

The Council (who are also the directors of Bath Institute Of Medical Engineering Limited for the purposes of company law) are responsible for preparing the Report of the Council and the financial statements in accordance with applicable law and United Kingdom Accounting Standards (United Kingdom Generally Accepted Accounting Practice).
Company law requires the Council to prepare financial statements for each financial year which give a true and fair view of the state of affairs of the charitable company and of the incoming resources and application of resources, including the income and expenditure, of the charitable company for that period. In preparing those financial statements, the trustees are required to:

- select suitable accounting policies and then apply them consistently;
- observe the methods and principles in the Charity SORP;
- make judgements and estimates that are reasonable and prudent;
- prepare the financial statements on the going concern basis unless it is inappropriate to presume that the charitable company will continue in business.

The Council are responsible for keeping proper accounting records which disclose with reasonable accuracy at any time the financial position of the charitable company and to enable them to ensure that the financial statements comply with the Companies Act 2006. They are also responsible for safeguarding the assets of the charitable company and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

Statement As To Disclosure Of Information To Auditors

So far as the Council are aware, there is no relevant information (as defined by Section 418 of the Companies Act 2006) of which the charitable company's auditors are unaware, and the Council has taken all the steps that they ought to have taken as a council member in order to make them aware of any audit information and to establish that the charitable company's auditors are aware of that information.

Auditors

The auditors, Haines Watts, will be proposed for re-appointment at the forthcoming Annual General Meeting.

ON BEHALF OF THE COUNCIL:

M G W Humphriss,
Honorary Secretary

Independent Auditor's Report

to the Members of Bath Institute Of Medical Engineering Limited

We have audited the financial statements of Bath Institute Of Medical Engineering Limited for the year ended 31 March 2015 which comprise the Statement of Financial Activities, the Balance Sheet and the related notes. The financial reporting framework that has been applied in their preparation is applicable law and the Financial Reporting Standard for Smaller Entities (effective April 2008) (United Kingdom Generally Accepted Accounting Practice applicable to Smaller Entities).

This report is made solely to the charitable company□ s members, as a body, in accordance with Chapter 3 of Part 16 of the Companies Act 2006. Our audit work has been undertaken so that we might state to the charitable company□ s members those matters we are required to state to them in an auditor□ s report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the charitable company and the charitable company□ s members as a body, for our audit work, for this report, or for the opinions we have formed.

Respective responsibilities of trustees and auditor

As explained more fully in the Trustees□ Responsibilities Statement, the trustees (who are also the directors of the charitable company for the purposes of company law) are responsible for the preparation of the financial statements and for being satisfied that they give a true and fair view.

Our responsibility is to audit and express an opinion on the financial statements in accordance with applicable law and International Standards on Auditing (UK and Ireland). Those standards require us to comply with the Auditing Practices Board□ s [(APB□ s)] Ethical Standards for Auditors.

Scope of the audit of the financial statements

An audit involves obtaining evidence about the amounts and disclosures in the financial statements sufficient to give reasonable assurance that the financial statements are free from material misstatement, whether caused by fraud or error. This includes an assessment of: whether the accounting policies are appropriate to the charitable company□ s circumstances and have been consistently applied and adequately disclosed; the reasonableness of significant accounting estimates made by the trustees; and the overall presentation of the financial statements. In addition, we read all the financial and non-financial information in the Trustees□ Annual Report to identify material inconsistencies with the audited financial statements and to identify any information that is apparently materially incorrect based on, or materially inconsistent with, the knowledge acquired by us in the course of performing the audit. If we become aware of any apparent material misstatements or inconsistencies we consider the implications for our report.

Opinion on financial statements

In our opinion the financial statements:

- give a true and fair view of the state of the charitable company□ s affairs as at 31 March 2015, and of its incoming resources and application of resources, including its income and expenditure, for the year then ended;
- have been properly prepared in accordance with United Kingdom Generally Accepted Accounting Practice applicable to smaller entities; and
- have been prepared in accordance with the requirements of the Companies Act 2006.

Opinion on other matter prescribed by the Companies Act 2006

In our opinion the information given in the Trustees□ Annual Report for the financial year for which the financial statements are prepared is consistent with the financial statements.

Matters on which we are required to report by exception

We have nothing to report in respect of the following matters where the Companies Act 2006 requires us to report to you if, in our opinion:

- adequate accounting records have not been kept or returns adequate for our audit have not been received from branches not visited by us; or
- the financial statements are not in agreement with the accounting records and returns; or
- certain disclosures of trustees□ remuneration specified by law are not made; or
- we have not received all the information and explanations we require for our audit; or
- the trustees were not entitled to prepare the financial statements in accordance with the small companies regime and take advantage of the small companies exemption in preparing the directors□ report and take advantage of the small companies exemption from the requirement to prepare a strategic report.

Susan Plumb ACA Susan Plumb
Senior Statutory Auditor
For and on behalf of Haines Watts, Chartered Accountants and Statutory Auditors
Old Station House
Station Approach
Newport Street
Swindon
SN1 3DU

Date: 1st June 2015

Statement of Accounting Policies

This Statement of Accounting Policies forms part of the Accounts.

(a) *Accounting convention*

The accounts have been prepared in accordance with the historical cost basis of accounting, with the exception of investments which are included at market value, in accordance with Statement of Recommended Practice "Accounting by Charities" Revised 2005 and in accordance with the Financial Reporting Standard for Smaller Entities.

(b) *Taxation*

No provision for taxation, deferred or otherwise, has been provided in these accounts as Designability is a registered charity (registered number 256335) and is therefore exempt from taxation (other than Value Added Tax) under Section 505 of the Income and Corporation Taxes Act, 1988.

(c) *Assets received as donations*

No assets have been donated to the Institute, other than financial donations.

(d) *Cash flow statement*

No cash flow statement has been prepared as it is considered that no material benefit would be derived from such a statement.

(e) *Sponsored research*

Income from sponsored research is the recovery of direct expenditure incurred during the year and overheads relevant to that year.

(f) *Replacement of assets*

Items of equipment are expensed and charged through the Statement of Financial Activities. However, motor vehicles are capitalised and depreciation charged at 20% per annum and a new milling machine for the workshop has been capitalised and depreciation charged at 10% per annum.

Costs incurred on the Wizzybug loan scheme are capitalised and depreciation charged at 20% per annum.

Building refurbishment costs are capitalised and depreciation charged at 2% per annum.

(g) *Investments*

Dividends and interest from investments are credited to income on a receivable basis and include the associated income tax credits.

Investments are shown in the Balance Sheet at the mid-market price quoted by the London Stock Exchange. Gains and losses on the revaluation and realisation of investments are credited to the Investment Fund in the Statement of Financial Activities.

(h) *Incoming Resources*

All incoming resources are included in the statement of financial activities when the charity is entitled to the income and the amount can be quantified with reasonable accuracy. The following specific policies are applied to particular categories of income:

a) Voluntary income is received by way of grants, donations and gifts and is included in full in the statement of financial activities when receivable.

b) Interest is accounted for in the period it is receivable.

c) Consultancy, sales and royalties are accounted for in the period in which the relevant goods or services have been provided. Contractual income received in advance has been deferred.

(i) *Resources Expended*

All expenses are accounted for on an accruals basis as the liability is incurred.
Direct and indirect charitable expenditure represents expenditure in the furtherance of the work of the Institute.

Fund raising expenditure consists of appropriate printing and postage costs and a proportion of administration costs.

(j) *Fund Accounting*

Restricted funds are to be used for specific purposes as laid down by the donor or funder. For research projects, expenditure is direct costs including all contracted staff hours. Income is the income from research councils to cover the direct costs.

For restricted projects, expenditure is the total of all invoiced costs plus all recorded staff hours spent on the project with a 45% charge to cover support costs and overheads. Income is the donated income specified for each project, received in the year.

Designated funds are unrestricted funds that have been set aside by the trustees for particular purposes. The aim and use of each designated fund is set out in the notes to the financial statements.

General funds are unrestricted funds which are available for use at the discretion of the Trustees in furtherance of the general objectives of the charity and which have not been designated for other purposes.

Transfers between funds are made where the income for the project is exceeded by the costs incurred on the project, or where it has been agreed with the funder to use unspent balances at the end of a project on activities with a similar objective.

(k) *Pension Costs*

Designability participates in three defined benefit pension schemes. The costs of contributions are recognised in the year they are paid (see note 5).

Accounts

Balance Sheet at 31 March 2015

	Total Funds 2015 £	*Total Funds 2014 £*
Fixed Assets (Note 10)		
Investments	476,705	*437,808*
Tangible assets	250,875	*170,492*
	727,580	*608,300*
Current Assets		
Debtors Sundry	95,247	*65,675*
Pre-payments	8,461	*2,397*
Money Market deposits	338,407	*352,888*
Bank balances	72,700	*67,066*
Petty Cash	98	*12*
	514,913	*488,038*
Creditors:amounts falling due within one year		
Creditors & Accruals (Note 12)	(105,065)	*(81,365)*
Net current assets	409,848	*406,673*
Total assets less liabilities	1,137,428	*1,014,973*
Funds:		
Unrestricted funds		
General reserves	273,113	*293,092*
Designated reserves (Note 13)	724,908	*500,000*
Restricted funds (Note 14)	139,407	*221,881*
Total funds	1,137,428	*1,014,973*

Bath Institute Of Medical Engineering Limited
31 March 2015

Approved by Council on 22 June 2015

Dr P. T. Magee: Chairman

Ms L. Gawith: Vice Chair

Approved by Council on 22 June 2015

Dr P. T. Magee: Chairman

Ms L. Gawith: Vice Chair

Bath Institute Of Medical Engineering Limited
31 March 2015

Statement of Financial Activities
(including the Income and Expenditure Account)

	Unrestricted Funds	Restricted Funds Research	Restricted Funds Projects	Total Funds 2015	*Total Funds 2014*
	£	£		£	£
Incoming Resources from generated funds					
Voluntary income					
Donations	216,519		302,680	519,199	*456,656*
Grants for sponsored research		76,610		76,610	*109,430*
Investment income	17,989			17,989	*19,558*
Consultancies (& Misc) (Note 4)	63,371			63,371	*51,258*
Incoming resources from charitable activities					
Sales	124,037			124,037	*108,287*
Bad debt write off	0			0	*(324)*
Royalties	41,415			41,415	*36,200*
Total incoming resources	463,331	76,610	302,680	842,621	*781,064*
Expenditure					
Charitable activities					
Direct expenditure on general activities:					
Salaries and wages (Note 5)	273,560			273,560	*305,294*
Materials and equipment (Note 14)	(176,036)			(176,036)	*(30,127)*
Direct expenditure on sponsored activities:					
Salaries and wages (Note 5)		57,484	132,522	190,006	*168,932*
Materials and equipment		2,323	246,538	248,861	*96,369*
Administration, exhibitions and				0	*3,876*
professional fees		15,578		15,578	*0*
Depreciation on Wizzybug loan scheme	61,600			61,600	*32,400*
Depreciation on Computer equipment	9,387			9,387	*7,502*
Depreciation on refurbishment	1,056			1,056	*1,056*
Depreciation on W'shop equip.	1,743			1,743	*1,498*
Travelling and conferences		1,225	4,202	5,427	*5,119*
Indirect expenses:					

Rent (Note 6)	7,039			7,039	*6,101*
Premises	6,843			6,843	*59,810*
Administration, exhibitions and professional fees (Notes 7 & 8)	51,371			51,371	*52,805*
Travelling and conferences	13,739			13,739	*13,862*
Cost of generating funds					
Salaries	45,474			45,474	*43,033*
Materials and equipment	3,416			3,416	*2,528*
Total expenditure	299,191	76,610	383,262	759,064	*770,058*
Net (outgoing)incoming resources for the year before transfers	164,140	0	(80,582)	83,557	*11,006*
Unrealised gain on investment assets(Note 9)	38,897	0		38,897	*12,266*
Realised loss on investment assets				0	*0*
	203,037	0	(80,582)	122,455	*23,273*
Transfer between funds	1,892	0	(1,892)		
Net movement in funds	204,929	0	(82,474)	122,455	*23,273*
Funds at 31 March 2014	793,092		221,881		*1,014,973*
Funds at 31 March 2015	998,021	0	139,407	1,137,428	

Notes to the Accounts

1 LIMITATION BY GUARANTEE
The Company is Limited by Guarantee and as such has no share capital. Under the Constitution, each member of Designability is liable to contribute £10 in the event of winding up.

2 CHARITABLE STATUS
The Company is a registered charity (no. 256335).

3 SUBSCRIPTIONS
In previous years Designability's members paid an annual subscription to the organisation. With the revision of the Articles of Association in March 2009, membership of the Institute is restricted to members of Designability Council and any income from members is counted as a donation.

4 CONSULTANCIES, SALES & ROYALTIES
This heading has been split to show funds separately for the three areas.

5 EMPLOYEES
Particulars of employees are as shown below:-:

	2015 £	2014 £
Wages and Salaries	451447	405118
Social Security Costs	31176	29624
Other Pension Costs	65010	58866
	547633	493608

No trustee received any remuneration or expenses during the year (2014 £ nil).

One employee received a salary of between £65k and £75k

Employees by function :– Engineering – 7.4 fte, Clinical – 1.6 fte, Fundraising – 2.3 fte, Admin/mgmnt – 3.7 fte Promotions – 0 fte

Designability participates in three contributory pension plans providing defined benefits based on final pensionable pay. The schemes are as follows:-

Local Government Pension Scheme. The assets of the scheme are held separately from those of the Institute. The Institute does not have separate employee registration and is registered as part of Bath University for the purpose of the scheme. Accordingly, it is not possible to separately identify the assets and liabilities relating to the Institute for the purpose of Financial Reporting Standard 17 (FRS 17) disclosure and accordingly any FRS 17 surplus or deficit attributable to the Institute is not shown on the Balance Sheet.

National Health Service Scheme and Universities Superannuation Scheme. Both of these are mutual schemes and again, the assets and liabilities cannot be attributable to an employer and any surplus or deficit attributable to the Institute is not recognised on the Balance Sheet.

The schemes are therefore treated as defined contribution schemes in these financial statements as permitted by FRS 17.

6 LEASEHOLD PROPERTY
A lease of the property at the Medical Sciences Centre was entered into on 26 May 1995 and renegotiated on 23 April 2013. By the terms of the lease, the annual rent was reviewed and agreed at £5330 (Excluding VAT). The lease expires on 28 September 2067. There were no capital costs to the Institute. A lease was also entered into on an industrial unit (Unit 5, Victoria Park Business Centre, Midland Rd, Bath, BA1 3AX), on 10 February 2015. Annual Rent of £6,000 is payable for a two year term.

7 AUDIT FEES
Audit fees of £1800 are included under the heading of Administration, Exhibitions and Professional Fees.

8 DIRECTORS' AND OFFICERS' LIABILITY INSURANCE
The Institute has effected Directors' and Officers' Liability Insurance cover.

9 INVESTMENTS

	2015 £
Value at 1 April 2014	437808
Unrealised Gains	38897
Disposals	-
Acquisitions	-
Value at 31 March 2015	476705

The Investments are shown in the Balance Sheet at market value.

10 FIXED ASSETS

Cost	Workshop Equipment	Refurbishment	Computer Equipment	Motor Vehicles	Wizzybug Loan scheme	Total
				£	£	£
At 1 April 2014	14976	52780	22500	6,362	162000	258618
Additions	2445		5723	0	146000	150630
Disposals	0	0	0	0	0	0
At 31 March 2015	17420	52780	28224	6,362	308000	409248
Depreciation						
At 1 April 2014	1498	1056	14811	6362	64400	88127
Charge for the year	1743	1056	9387	0	61600	72618
Eliminated on disposal	0	0	0	0	0	0
At 31 March 2015	3241	2112	24198	6362	126000	158,373
Net Book value						
At 31 March 2015	14179	50668	4028	0	182000	250875
At 31 March 2014	13478	51724	7690	0	97600	170492

11 RELATED PARTY

For administrative purposes Designability's staff payroll is processed through the University of Bath. Salary costs are invoiced by the University to Designability. Consumable items and stationery are charged at cost; the total of these charges is insignificant.

12 CREDITORS AND ACCRUALS

	2015 £	2014 £
Sundry creditors	79970	8537
Accruals	25095	72828
	105065	81365

13 DESIGNATED FUNDS

The trustees have reviewed the level of designated funds at 31 March 2015 and consider the funds set aside should be increased from the current £500,000 to £724,908 to cover 1 year salary costs, restructuring costs and refurbishment of Wizzybugs on return from loan.

	£
Balance on reserve: 31 March 2014	500,000
Transfer from Unrestricted funds	224,908
Balance on reserve: 31 March 2015	724,908

14 CAPITALISATION OF WIZZYBUG LABOUR AND MATERIAL COSTS

Designability continues to expand the Wizzybug loan scheme. During the year a further 73 were built bringing the total to 154 at 31.03.15. Labour and material costs associated with building the units are removed from the Statement of Financial Activities and capitalised into Fixed Assests. Costs are then written off over a period of 5 years.

Material costs incurred in the year were as follows:-

	2015 £	2014 £
Total material costs incurred in the year	185,741	107,770
Capitalised as Wizzybug costs	-109,500	-39,000
Net costs recognised in the SOFA	76,241	68,770

Classification in the SOFA:-

Restricted funds research	2,323	4,858
Restricted funds projects	246,538	91,511
Unrestricted funds:-		
Cost of generating funds	3416	2,528
Direct expenditure on general activities	-176,036	-30,127
	76,241	68,770

15 RESTRICTED FUNDS

Restricted Funds

Fund	1 April 2014	Expenditure	Income/Transfers	Transfer from/ (to) general	31 March 2015
	£	£	£	£	£
RESEARCH					
Innovation for Growth		31379	-31379		
Internet of Things		12850	-12850		
BREATHE		32381	-32381		
TOTAL RESEARCH		76610	-76610		
PROJECT					
Wheelchair Baby carrier Loan Scheme	3250	0	6843		10093
Toddler Carrier	10843	0	-6843	-4000	0
Slingshot	11929	0	11929		0
TV Remote	9449	13612	-2500	1663	0
Sensory Cushion	0	17445	-17000	445	0
National WizzyBug loan scheme	141477	310250	-258092		89318
Cooker monitor	0	5876	-10888		5012
Compliant Seat extension	31179	16825	-9429		23783
Equip	3000	3000	-3000		3000
In Touch	6403	5897	-5000		5506
BREATHE	0	8500	-8500		0
Day Clock Plus	1351	615			736
Internet of Things	3000	1242	-200		1958
TOTAL PROJECT	221881	383262	-302680	-1892	139406

Dr L H A Pilkington Charitable Trust

Donations Received

The following were exceptionally generous in their donations:

Motability Oerations
Freemasons□ Grand Charity
The Charles Wolfson Charitable Trust
Star Trust
Garfield Weston Foundation
The Roper Family Charitable Trust
The Calleva Foundation
The Childwick Trust
The Hadley Trust
The D.C.R. Allen Charitable Trust
The H.B. Allen Charitable Trust
The Basil Samuel Charitable Trust
Philip King Charitable Trust
Sirona Care & Health
The Pixel Fund
Rotary Club of Bath
Credit Suisse Securities (Europe) Ltd
The Beatrice Laing Trust
The Ballinger Charitable Trust
CHK Charities Limited
The Edith Lilian Harrison 2000 Foundation
Jenour Foundation
The Bernard Lewis Family Charitable Trust
O□ Sullivan Family Charitable Trust
The Dowager Countess Eleanor Peel Trust
Spirax Sarco Group Charitable Trust
The Elizabeth and Prince Zaiger Trust
The James Beattie Charitable Trust
Charlie□ s Gift
Network Rail
Rieves Foundation
The Spielman Charitable Trust
Michael Turner
Simon Whitbread Charitable Trust
The Zochonis Charitable Trust
The Inner Wheel Club of Bath
The Brian Mitchell Charitable Settlement
The Sir James Reckitt Charity
The Allergan International Foundation
The Bascule Charitable Trust
Roger and Jean Jefcoate Trust
The John Rayner Charitable Trust
The Singer Foundation
The Steel Charitable Trust
National Grid
Anglian Community Trust
The Clara E Burgess Charity
Richard Cook
Smiths Group plc
The Nicky and Eileen Barber Charitable Trust
Dementia Research UK
Didymus CIO
A M Fenton Trust
The Foresters Charity Stewards UK Trust
The Helen Hamlyn Trust
The Joicey Trust
The George John and Sheilah Livanos Charitable Trust
Next Plc
The Odin Charitable Trust
PF Charitable Trust
Dame Violet Wills Will Trust
Buro Happold Ltd
Open Gate Trust
Sir Jules Thorn Charitable Trust
The Tula Trust Ltd
David Uri Memorial Trust
C Rowbotham Charitable Trust
Charity Sci-Fi
The F C Burgess Appeal Fund
G M Morrison Charitable Trust
Anne Parker
The Bothwell Charitable Trust
The Broughton Family Charitable Trust
William Chown Charitable Trust
Doris Field Charitable Trust
The Happy Charitable Trust
The Lady Hind Trust
The Hospital Saturday Fund

The Hull and East Riding Charitable Trust
The Lady Eileen Joseph Foundation
The Kelton Trust

The Jack Lane Charitable Trust
Leeds Building Society Charitable Foundation
Irwin Mitchell
Norman Family Charitable Trust
Oakdale Trust
The Brian Shaw Memorial Trust
The SMB Charitable Trust
The J Torrington Children□ s Fund
Sue Whiteford
Mr D.C. Whitworth & Mrs M Ito
The Inner Wheel Club of Sleaford Kesteven
PCC Blagdon St Andrews
Matravers School
Benham Charitable Settlement
Ascentric/Investment Funds Direct Ltd
The Helianthus Charitable Trust
The Charles Irving Charitable Trust
The Mason Bibby 1981 Trust
Duchy of Lancaster Benevolent Fund
Mr and Mrs D Rushgrove
The Ammco Trust
The B-CH 1971 Charitable Trust
J and M Britton Charitable Trust
Gilbert and Eileen Edgar Foundation
The Family Rich Charities Trust
The Robert Kiln Charitable Trust
The David King Charitable Trust
The Kobler Trust
MacCabe Family Charitable Trust
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